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AND RELATED ENGINEERING SCIENCE

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Volume 17

January—December 1964

Subject Index Page 1 Author Index Page 43

Supplemental List of Publications Scanned Page 73

Volume 2 No. 2 March 1965
In four sections

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Subject Index to Applied Mechanics Reviews

Volume 17, January-December 1964

(Numbers used are serial numbers of items)

THE TYPING EQUIPMENT USED FOR PRINTING THE INDEX HAS ONLY UPPER CASE LETTERS. FOR THIS REASON AN ASTERISK IS USED BEFORE AND AFTER THE SEE AND SEE ALSO WORDINGS. THE MAIN AND SUB-HEADINGS ARE DIFFERENTIATED BY INDENTATION. SUBHEADINGS IN THE SEE ALSO GROUPS ARE SEPARATED FROM THE MAIN HEADINGS BY COMMAS. FOR EXAMPLE *SEE ALSO* STREAM, NATURAL

A

- ABLATION
0405 0451 0452 1067 1068 1183 1696 2274 2351 2353
2354 3014 3529 3531 4080 4753 5337 6053 6054 6702
- ABSORPTION
0633 2837 4601
- ABSORPTION OF SOUND--- *SEE* SOUND, ABSORPTION
- ACCELERATION MEASUREMENT
0647 0651 1263 2523 7154
- *SEE ALSO---- STRAIN GAGES
- ACOUSTIC PROPERTIES OF MATERIALS
5114
- ACOUSTICS--- *SEE* SOUND
- ADHESIVES
0238 0612 1482 3335 3337 3339 3871 3885 3886 4538
5152 6496 6497
- AERODYNAMIC COEFFICIENTS
0307 0308 0362 0363 0902 0958 0959 1647 1761 2237
2242 2244 2245 2246 2247 2789 2813 2814 2818 3412
3415 3458 3573 3582 3583 3586 3589 4585 4591 4636
4640 4645 4646 4686 4695 4910 5192 5204 5243 5244
5245 5254 5277 5281 5282 5892 5893 5907 5951 5956
5957 6631 7282 7283 7284 7289 7343 7344
- DRAG COEFFICIENT
0310 0388 2842 3383 3574 3942 5249 5283 5978
- LIFT COEFFICIENT
0901 1158 2762 2766 3940 6600 6601 7277
- MOMENT COEFFICIENT
0387 2766
- AERODYNAMIC HEATING
0386 0405 1041*1681 2239 2323 2324 2884 3504 3506
4053 4056 4062 4590 4737 5210 5217 5298 5889 5899
6664 6668 6672 6877 7279 7382 7397
- AERODYNAMIC INTERFERENCE
3458 5279 5956 5957 6599 6603 7343 7345
- AEROELASTICITY
1132 1133 1143 1749 1750 1753 2407 3575 4648 6110
- AEROELASTICITY *CONTINUED*
6768 7471 7472
- DYNAMIC
0653 1904 2410 3681 4143 4144 4147 5515 5522 6113
6115 6118
- PANELS
1755 1756 1757 1758 1759 2408 2409 6111 6112
- STATIC
2247 5281 5423 6598
- *SEE ALSO---- FLUTTER -- GUST LOADS --
HYDROELASTICITY -- OSCILLATIONS IN FLUID -- WINGS
- AERONAUTICS
0899 0988 1165 1169 3582 3584 3590 4815 4816 4874
4910 5417 5522 5526 5883 6210 7574
- AEROSOLS
2460 4203
- AERTHERMOCHEMISTRY
0944 1619 1704 2224 2225 2227 2804 4765 5219 5908
- FROZEN FLOW
3395 4634 7253
- NON-EQUILIBRIUM FLOW
0942 2803 2805 2806 3393 3952 4588 4602 4614 4632
4633 5195 5197 5217 5218 5884 5902 5912 6553 6554
6562 6580 6588 7241 7252 7253 7254
- REACTION RATES
4614 5350 5912 7241
- RELAXATION TIMES
4602 5890 5913 5951 7257
- AERTHERMODYNAMICS
0023 1021 1047 2321 2322 2883 3389 4052 4726 5163
5318 6030 6031 6032 7361
- *SEE ALSO---- AERODYNAMIC HEATING -- HEAT TRANSFER,
BOUNDARY LAYER -- TEMPERATURE RECOVERY
- AFTERSURNERS
2542
- AGING
0818 1474 1476 3877 4482 5123 5124 6297
- AIRCONDITIONING--- *SEE* REFRIGERATION,
AIRCONDITIONING

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

SUBJECT INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

- AIRCRAFT STRUCTURES--- *SEE* STRUCTURES, AIRPLANE
- AIRFOIL CASCADES--- *SEE* CASCADES OF AIRFOILS
- AIRFOIL CHARACTERISTICS
2518 2759 2762 3410 3411 3412 3416 6791 7340
- PRESSURE DISTRIBUTION
0362 0384 0386 0957 0960 0984 1644 2275 2276 2840
3410 3452 4644 5555 6597 6635 7321 7322 7323 7324
7325 7326 7327 7328 7329 7330 7331
- *SEE ALSO--- AERODYNAMIC COEFFICIENTS -- STALLING
- AIRFOIL THEORY
0022 0961 2182 3413 3662 4387 4637
- COMPRESSIBLE FLOW
0523 5245 5246 5389 5955 6105 7281
- INCOMPRESSIBLE FLOW
0359 2742 4636 4638 5243 5248 5867 5943 5952 6514
- *SEE ALSO--- WINGS
- AIRPLANE
2125 5419 5895 6631 6790
- CONTROL
0058 5422 5424 7321 7322 7323 7324 7325 7326 7327
7328 7329 7330 7331
- DYNAMIC LOADS
0364 0987 1140 2241 2243 2249 4410 4874
- LATERAL STABILITY
0993 0994 2243 2248 2436 3463 3465 4645 4647 5251
5253 5254 5278 5281 5420 6213 6603 7285 7286
- LOADS
0058 0364 7291 7292
- LONGITUDINAL STABILITY
0387 0963 0992 1647 1649 1784 2248 2819 2820 2822
3421 3422 3423 3463 4646 4648 5247 5254 6213 7288
- PERFORMANCE
0360 1157 1158 1167 1168 2818 2841 3420 5418 5421
5918 6789 6808 7284
- SPIN RECOVERY
2821 5989
- *SEE ALSO--- AERODYNAMIC COEFFICIENTS --
GLIDERS -- HIGH LIFT DEVICES -- ICING --
JET FLAPS -- LANDING AND TAKEOFF -- NOISE,
ENGINES -- STRUCTURES, AIRPLANE -- VIBRATION,
AIRPLANES
- AIRPLANE DESIGN
0239 0240 0241 0242 0243 2124 3913 4514 5835 6210
6474
- *SEE ALSO--- STRUCTURES, AIRPLANE
- ALGEBRAIC EQUATIONS--- *SEE* EQUATIONS, ALGEBRAIC
- ALUMINUM AND ALUMINUM ALLOYS
0084 0092 0241 0838 1476 2081 2085 2087 2088 2101
2568 2681 3255 3289 3302 3305 3329 3876 4423 4424
4489 4490 4491 5613 5773 6405 6420 6422 6447 6960
6983 7143 7169
- ANALOG COMPUTERS--- *SEE* COMPUTING MACHINES,
ANALOG
- ANALOGIES
1897 1899 1900 1901 2520 3081 4417 5515 5520 5524
5526 6151 6213 6897 6898
- ELECTRICAL
- ANALOGIES *CONTINUED*
0020 0022 0025 0686 1391 1898 1974 2516 2519 3078
3079 4013 4252 4253 4254 4255 4256 4453 4697 4858
4914 5246 5516 5517 5518 5519 5521 5522 5589 6208
6211 6212 6452 6896 6900 6901 7179 7180 7281
- FLUID MECHANICS
0023 1894 1896 2518 3006 5167 5900 6210 7226 7227
- HEAT TRANSFER
0024 1019 2334 5525 6007 6028
- HYDRAULIC
1892 1895 6209 6899
- SOLID MECHANICS
0019 1330 1891 1948 3006 5589
- STRUCTURAL
0021 0629 1893
DECEMBER FEATURE ARTICLE
- ANALYSIS, NUMERICAL--- *SEE* NUMERICAL ANALYSIS
- ANEMOMETER
0952 1624 3451 3992 3995 4001 6596 7334
- HOT-WIRE
0342 0356 0606 0956 6593 7337
- *SEE ALSO--- TURBULENCE, MEASUREMENTS --
VELOCITY MEASUREMENT
- ANISOTROPIC MEDIA
0715 1536 1970 2105 2143 3164 3379 3657 3890 6498
6829 7199
JANUARY FEATURE ARTICLE
- ANISOTROPIC PLATES--- *SEE* PLATES, ANISOTROPIC
- ANISOTROPIC SHELLS--- *SEE* SHELLS, ANISOTROPIC
- APPROXIMATIONS--- *SEE* SERIES EXPANSION AND
OTHER APPROXIMATIONS
- ARCHES AND VAULTS
0176 0866 1333 2119 2695 3903 3904 5824 5834 7186
- *SEE ALSO--- BUCKLING, ARCHES AND VAULTS
- ARCS
0529 1113 1125 1129 1737 2405 2960 3527 3559 3570
4140 4222 4729 4784 4801 6042 6108 6742 6749 7433
7435 7468 7469
- ARTIFICIAL EARTH SATELLITES
0027 0047 0051 0052 0053 0054 0057 0559 0564 0570
0604 0605 0666 0670 0671 0672 0673 0674 1287 1288
1291 1292 1293 1829 1918 1927 1936 1937 1938 1939
1940 2552 2553 2556 3117 3598 3601 3603 4181 4286
4287 4834 4839 4949 5445 5484 5485 5574 6139 6146
6247 6251 6797 6800 6802 6815 6927 7510 7513 7514
7579
- COMMUNICATION SATELLITES
1799 2985 5444 5671 6447
- COVERAGE PROBLEMS
4831
- HIGH ALTITUDE ATMOSPHERE
0607 1835 6095
- MANNED SATELLITES
0571 1801 3616 4168 4174 7520 7525
- ORBIT DECAY-LIFETIME
0607 0649 0650 1793 2435 2982 4173
- RADIATION PRESSURE
5445 6133 6792 6816

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

SUBJECT INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

3

ARTIFICIAL EARTH SATELLITES *CONTINUED*

REENTRY

0554 0563 1183 1781 1782 1800 2396 2972 2974 2979
4175 4184 4820 4838 5433 6142 6745 6764 7518

TWENTYFOUR HOUR SATELLITES

1792 1927 2987 6804

WEATHER SATELLITES

3035 3637 4840 6855

*SEE ALSO---- CELESTIAL MECHANICS -- ORBIT
MECHANICS -- SATELLITES

ASTRONAUTICS

0547 0576 1875 1896 4164 6194

MANNED MISSIONS

2520 3081 4168 4174 7525

RELIABILITY

0570 5484 5485

SPACE HAZARDS

0604 0605 1184 2988 6212

*SEE ALSO---- ARTIFICIAL EARTH SATELLITES --

ASTROPHYSICS -- CELESTIAL MECHANICS --

INTERPLANETARY PROBES -- LUNAR MISSIONS --

MISSILES -- ORBIT MECHANICS -- ROCKETS -- SPACE

NAVIGATION AND GUIDANCE -- SPACE POWER -- SPACE

PROPULSION -- SPACE VEHICLE DESIGN -- SPACE

VEHICLE STABILIZATION

ASTROPHYSICS

0525 6109

SOLAR SYSTEM

0575 0604 0605 6851 7521 7579

*SEE ALSO---- ASTRONAUTICS -- CELESTIAL
MECHANICS -- ORBIT MECHANICS

ATMOSPHERE--- *SEE* METEOROLOGY, ATMOSPHERE

ATOMIZATION--- *SEE* SPRAYS

ATTENUATION OF SOUND--- *SEE* SOUND, ATTENUATION

AUTOMATIC CONTROL

0030 0031 0042 0043 0044 0046 0624 0626 0664 0675
1274 1275 1276 1280 1281 1282 1867 1905 1916 1932
1933 2508 2509 2511 2517 3686 3687 3702 3706 3707
3709 3710 3711 4264 4654 4901 4903 4907 4908
4909 4914 4922 5535 5563 5564 5567 5570 6225 6909
6916 6928 6929

APRIL FEATURE ARTICLE

ADAPTIVE SYSTEMS

0039 0040 0663 1898 1899 1914 1925 1926 2540 2543
2544 2550 3088 3089 3109 3688 3692 3703 3704 4276
4277 4278 4933 4934 5536 5535 5558 5559 6913 6914

JULY FEATURE ARTICLE

AUTOMATION

0048 0049 0050 0667 0668 0669 1285 1912 1922 2538
2550 2555 3083 3084 3094 3111 3682 3689 4530 4939
5571 5572 5573 5578 6244 6248 6908 6926 7192

COMPONENTS AND INSTRUMENTS

2534 2538 2551 3083 3111 3118 3700 3714 3715 3717
4266 4280 4282 4283 4289 4555 4922 4938 4939 4940
4943 4946 5534 5568 5570 5572 5573 5576 5577 5578
6241 6244 6248 6251 6908 6911 6926 6928 6929

DIGITAL SYSTEMS

1913 3074 3075 3702 4290 5555 6236 6911 6913

FREQUENCY RESPONSE

0032 0033 0045 0656 0657 0658 0667 0668 1266 1267
1270 1286 1296 1890 1897 1907 1935 2525 2536 2542

AUTOMATIC CONTROL *CONTINUED*

2546 2549 3082 3084 3090 3091 3096 3100 3118 3684
3695 3696 3706 4267 4269 4284 4923 4924 5536 5537
5540 5541 5544 5548 5549 5550 5575 6226 6227 6903
6909 7290

LINEAR SYSTEMS

0030 0031 0032 0033 0035 0045 0047 0048 0049 0055
0056 0062 0657 0660 0662 0663 0664 0665 1266 1267
1269 1276 1277 1278 1280 1282 1283 1284 1296 1665
1906 1907 1916 1920 1928 1929 1930 1931 1932 1933
1934 1935 1940 2524 2525 2526 2528 2530 2531 2532
2535 2540 2541 2545 2546 3082 3083 3085 3086 3087
3088 3089 3090 3091 3102 3108 3110 3114 3683 3685
3691 3692 3696 3703 3718 4267 4647 4923 4924 4926
4935 4936 5507 5517 5533 5565 5575 5579 6194 6225
6226 6227 6228 6229 6230 6231 6232 6233 6234 6239
6241 6903 6909 6921

NONLINEAR SYSTEMS

0034 0632 0641 0658 0659 0661 0682 1268 1270 1271
1278 1906 1912 1913 1917 1937 2526 2527 2533 2534
2554 3093 3095 3096 3097 3099 3693 3694 3697 3698
3705 4241 4242 4270 4271 4279 4927 4928 4930 4931
4934 5507 5542 5543 5545 5546 5547 5551 5552 5556
5566 6194 6225 6235 6237 6238 6904 6909 6910 6914
6918

OPEN LOOP SYSTEMS

1931 1934 3106 3683 4266 4925 5570

OPTIMIZING SYSTEMS

0041 0042 0043 0044 0046 0659 0664 0665 1274 1275
1276 1277 1278 1279 1281 1282 1284 1285 1914 1919
1928 1929 1930 1931 1932 1933 2544 2545 2547 2548
2549 3113 3114 3682 3687 3688 3693 3705 3707 3708
3709 3710 4277 4278 4279 4280 4281 4933 4935 4936
4937 5533 5560 5561 5562 5563 5564 5565 5566 5567
5568 6911 6915 6916 6917 6918 6919 6920 6921 6922
6923 6924

PROCESSES

0667 0668 0669 1281 1285 1941 2512 2538 2555 3083
3084 3085 3094 3116 3118 3689 3700 4256 4266 4282
4283 4938 4943 5250 5253 5570 5576 6244 6908 6926

SAMPLING AND SAMPLES SYSTEMS

0037 0038 0040 1273 1878 1879 1919 1920 1921 1922
1923 1924 2537 2539 3092 3098 3110 3112 3690 3709
4288 5556 5557 5562 5563 6230 6231 6912

SERVOMECHANISMS

2524 2554 3085 3100 3107 3114 3685 3686 3711 4266
4922 4929 4945 4946 5535 5537 5544 5548 5560 6375
7288

STABILITY

0030 0031 0033 0035 0036 0039 0045 0361 0657 0660
0662 1266 1267 1269 1274 1283 1284 1908 1909 1910
1911 1913 2524 2525 2528 2531 2532 2534 2535 2537
2539 2541 2543 2544 2546 2551 2554 3082 3088 3089
3090 3091 3101 3102 3104 3105 3106 3108 3109 3115
3121 3124 3683 3684 3686 3699 3701 3712 3718 4272
4273 4274 4275 4293 4294 4926 4932 4935 4936 4947
4948 5533 5538 5539 5540 5541 5553 5554 5559 5579
6194 6225 6228 6229 6232 6233 6234 6239 6246 6241
6245 6250 6903 6905 6906 6907 6915 6919 6920 6922
6923

STABILITY, NONLINEAR SYSTEMS

0034 0658 0659 0661 1268 1270 1271 1908 1909 1910
1911 1912 1913 1917 2527 2533 3093 3095 3096 3097
3099 3101 3103 3693 3694 3697 3698 3699 4270 4271
4279 4927 4928 4930 4931 4934 5542 5543 5545 5546
5547 5551 5552 5558 5566 6194 6235 6237 6238 6904
6905 6906 6907 6910 6914 6918

STABILITY, SAMPLED DATA SYSTEMS

0036 0037 0038 0040 0043 1919 1920 1921 1922 1923
2532 2537 2539 3092 3098 3101 3104 3112 3115 3690
4288 5556 5557 6228 6230 6231 6912

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

SUBJECT INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

AUTOMATIC CONTROL *CONTINUED*
STABILITY, THEORY

0033 0034 0037 0038 0041 1908 1909 1910 1911 1912
 2527 2532 2533 2535 2537 2539 3097 3101 3103 3104
 3105 3106 3124 3684 3699 3701 3712 3718 3719 4270
 4271 4272 4273 4274 4275 4932 5247 5538 5539 5552
 5553 5554 6225 6237 6238 6240 6905 6906 6907 6910
 6917 6919 6922

STATISTICAL THEORY

0018 0036 0637 3113 3115 3700 6236

*SEE ALSO---- DATA ANALYSIS -- GUIDANCE SYSTEMS --
 GYROSCOPIC -- INSTRUMENT ENGINEERING -- SAMPLING
 CONTROL -- SIMULATION

AUTOMATION-- *SEE* AUTOMATIC CONTROL, AUTOMATION

AUTOMOBILES-- *SEE* VEHICLES, LAND

B

HACKWATER CURVES
 1540 2735 6506

BALANCING-- *SEE* VIBRATION, BALANCING

BALL BEARINGS-- *SEE* BEARINGS, BALL

HALLISTICS
 1192 1259 1780 2983 4849

INTERIOR
 6151 6913

TERMINAL
 1190 7225

*SEE ALSO---- DETONATION AND DEFLAGRATION --
 EXPLOSIVES -- GUNS -- MISSILES -- PROJECTILES

BEAMS
 0021 0103 1334 2498 3076 3321 3656 5521 5827 6993
 7181

ANISOTROPIC
 3760 4993

BENDING
 0020 0035 0061 0102 0699 0710 0711 0722 1318 1323
 1328 1338 2573 2581 3144 3159 3203 3743 3753 3759
 4331 4990 4996 5592 5616 6208 6301 6948 6985 6986
 6989 6992

BOX
 0106 0721 1318 1343 2113

CANTILEVER
 0088 1011 1328 2574 2575 2707 3174 7063

COMBINED LOADING
 0710 0749 3744 3746 4356 4969 4984 4995 6208 6962
 6963 6971 6976 7280

COMPOSITE
 0858 1299 1335 1508 1975 3761 4502 4507 4972 5130
 5815

CONTINUOUS
 0710 1977 2608 4325 5598 5617 6988 6990

CREEP
 0699 0706 1317 1318 3157 3158 3159 3161 4314 4989
 4972 5595 5598 6957 6960 7605

CURVED
 0108 0109 0110 0111 0112 1323 1978 2577 2578 2579
 3175 4358 4989 5134 5618 5619 5620 5299 7023 7064

BEAMS *CONTINUED*

INTERSECTING
 6327 6328

LARGE DISPLACEMENTS
 0088 0112 4992 5650

NONHOMOGENEOUS
 1350 2578 4964

PLASTIC DEFORMATION
 0113 0710 0711 1323 1328 1345 1346 1347 1348 2580
 2608 3743 3744 3745 3746 4325 4991 4992 5608 5650
 6291 6960 6962 6963 6971 6972 6976

PRESTRESSED
 0858 2705 4972 5133 5598

REINFORCED CONCRETE
 0101 0105 1349 3317 4314 4433 4972 5615 5617 5614
 6448 6449

THIN SECTION
 0107 0110 1328 1339 1344 5017 6971

VARIABLE CROSS SECTION
 0155 3173 3577 6881 7280

*SEE ALSO---- BUCKLING, BEAMS -- ELASTIC
 FOUNDATIONS, BEAMS -- ENERGY METHODS -- FATIGUE,
 BEAMS -- RAILS -- STRUCTURES,
 STATICALLY INDETERMINATE -- TORSION, BEAMS --
 TORSION, SHAFTS -- VIBRATION, BEAMS

BEARING CAPACITY-- *SEE* SOIL MECHANICS, BEARING
 CAPACITY

BEARINGS
 0610 0613 0620 1230 1852 1853 1860 2495 4885 4890
 5494 5524 6214

BALL
 0621 0622 1227 1229 1858 2483 3278 4812 4898 5591

DYNAMIC EFFECTS
 3049 4255 7203

FATIGUE
 0255 1227 4443

GAS LUBRICATED
 0614 1219 1223 1224 1225 1226 1857 3046 3047 3049
 3050 3654 4235 4888 4893 6187 6870 7585 7587 7593
 7597 7601

HYDROSTATIC
 0619 1226 3047 6186

JOURNAL
 0284 0614 0618 0619 1220 1221 1223 1224 1225 1855
 1857 2490 3049 3652 3653 3654 4235 4236 4893 4894
 4895 5691 6186 6188 6477 7203 7585 7586 7587 7588
 7592 7593 7596 7597 7598

LIQUID LUBRICATED
 0622 1221 1855 3653 7592

ROLLER
 0621 1322 1854 4306 6190

SLIDER
 0255 2487 3046 4896 4897 5496 6191 7589

SOLID LUBRICATED
 1229 2463 2490

THERMAL EFFECT
 4812

THRUST
 1219 3050 4888 7594 7600 7602

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

SUBJECT INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

5

- BEARINGS *CONTINUED*
- UNCONVENTIONAL-ELECTROSTATIC, MAGNETIC, ACOUSTIC, ETC
4899 7590
- HELTS
5141
- HENTS--- *SEE* FRAMES AND RENTS
- BIBLIOGRAPHY
0215 1230 1462 1821 3632 6851
- BIOMECHANICS
2269 6851 7218
DECEMBER FEATURE ARTICLE
- *SEE ALSO---- HUMAN ENGINEERING
- HLADES--- *SEE* UNDER MODIFIER
- HLAST LOADING--- *SEE* EXPLOSION, EFFECTS ON STRUCTURES
- HLLOWERS--- *SEE* COMPRESSORS
- HLLOWOFF--- *SEE* COMBUSTION, BLOWOFF
- BOATS, FLYING--- *SEE* SEAPLANES AND FLYING BOATS
- HODIES, COMPRESSIBLE FLOW PAST
0276 0307 0308 0309 0310 0381 0900 1578 1579 1580
2180 2181 2183 2184 2185 2193 2201 2784 2785 2770
2774 3355 3376 3377 3381 3382 3384 3385 3419 3938
3942 4587 4589 4590 4595 5201 5232 5233 5249 5894
5899 5902 5905 5906 5911 5916 6511 7231 7234 7238
7239 7244 7251 7252 7293
- BLUNT CONFS
0919 2189 2766 2769 2772 3388 4588 5889 5890 5891
5907 5915 6760
- CONICAL
0304 0910 0911 2176 2767 5199 5202 5896 6552
- CYLINDRICAL
0306 1592 1645 2238 2372 3383 4131 5208 5387 6556
6560 6565 7218
- OGIVE
0901
- PLANE SURFACES
1591 4695 5194 6100 6733
- POWER LAW GEOMETRICS
5198 6555
- SLENDER
1743 2246 2275 2379 2394 3394 3412 4596 4639 4641
5388 5897 5898 5900 5903 6597 7236 7237 7257
- SPHERICAL
3565 4607 5205 6510 6560 6572
- WEDGES
0302 1595 1742 2186 3952 4594 5195 5369 7462
- HODIES, INCOMPRESSIBLE FLOW PAST
0279 0521 1548 3411 4638 5956 6519 6530 7222
- BLUNT CONES
2831
- CONICAL
0259 0293
- CYLINDRICAL
0283 0284 0887 0890 0959 1118 2171 2729 2745 2758
3160 3369 4636 4789 4529 6540 7277
- PLANE SURFACES
- RODIES, INCOMPRESSIBLE FLOW PAST *CONTINUED*
0359 1565 2755 3357 5357 6081 6831 7427
- POWER LAW GEOMETRICS
6521
- SLENDER
0287 4563 4565 5423
- SPHERICAL
0285 1194 2157 2159 2369 2830 3362 3540 3932 4540
4789 4873 5386 6170 6510 6520 6532 7223
- BOILERS
0468 1506 3468 4743
- *SEE ALSO---- HEAT EXCHANGERS
- BOILING--- *SEE* HEAT TRANSFER, BOILING
- BOLTED JOINTS--- *SEE* JOINTS, BOLTED
- BOUNDARY LAYER
0934 0960 1556 1603 1606 1609 1611 1612 1613 1615
1619 1832 1873 2208 2225 2790 2798 3054 3399 3400
3407 3414 3956 5222 5329 5882 5945 6580 6581 7263
7269 7344 7361
- AXISYMMETRIC
0287 2171 5875
- BINARY FLOW
0327 4626 5946 7341
- BOUNDARY ROUGHNESS
1607 2203 2213 3957 3966
- CHEMICAL REACTION
0340 0942 0945 0946 1618 1701 2222 2223 2226 3962
4095 5293 5295 5930 5946 5947 6587
- COMPRESSIBLE FLOW, LAMINAR
0303 0331 0933 0938 0945 2214 2220 2222 2223 2240
2774 3397 3398 3453 3922 3953 3954 3963 4107 4592
4624 4627 4782 5191 5227 5354 5930 5935 5937 5944
7247 7270
- COMPRESSIBLE FLOW, TURBULENT
0327 2209 2211 2234 2752 3401 3402 3954 4592 4623
4635 5225 5240 5933 6577 6729 7248 7249 7399
- CONTROL
0941 2841 5953 5978 6601
- HYPersonic
0333 0907 2226 2795 3962 4612 4625 5202 5205 5228
5875 5898 5903 5906 5938 7236 7271
- INCOMPRESSIBLE FLOW, LAMINAR
0287 0872 0889 0930 0931 0932 0935 1107 1117 1530
1563 1605 1616 2167 2206 2383 2393 2449 3344 4574
4616 4617 4619 5191 5469 5927 6523 6525 6594 7259
7296
- INCOMPRESSIBLE FLOW, TURBULENT
0328 0335 0892 0936 1607 1610 2171 2221 2792 2936
3958 4620 4621 4669 5154 5223 5224 5226 5233 5931
5932 7265 7267 7268 7550 7551 7552
- INTEGRAL METHODS
0337 0930 0932 0938 2218 2219 2753 2796 3967 4627
5927 5931 5944 7258 7270
- INTERACTION WITH SHOCK
0337 0338 0905 2211 2800 2802 2833 3406 4629 5886
5932 5935 6585
- MEASUREMENT AND EXPERIMENTAL TECHNIQUES
0341 0342 0343 0892 0947 1614 2234 3453 3969 4006
4628 4631 5228 5232 5239 5936 6623 6628 6632 6834
7268 7276

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

SUBJECT INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

BOUNDARY LAYER *CONTINUED*
SEPARATION

0337 0338 0957 0959 3397 4556 4619 4629 4630 5154
5231 5233 5887 5937 5943 6518 6577 6579 7265

SIMILARITY SOLUTIONS

0331 0332 0340 0353 0929 0935 0937 1721 3922 4616
5220 5221 5882 5928 5929 5935 5946 6547 6578 7260
7266

SKIN FRICTION

1103 2211 2213 2221 2240 2791 3406 4623 4627 5276
5875 5927 5939 6586 6623 6632 7268 7276

STABILITY

0334 2166 2215 4618 4732 4733 4734 4735 4736 5235
5263 5302 5934 5941 6024 6574 6582 7274 7391

SUCTION

0328 1531 1617 2212 2217 2218 2219 2220 2221 2742
2797 2801 3398 3539 3959 3960 3963 3967 4624 4630
5223 5927 5929 5930 5932 5944 6578 6586

THERMAL

0448 0937 1610 2210 2807 3403 3953 3954 3961 5302
5309 5882 6017 6019 6024 6025 6026 6546 6577 6671
7249 7267 7375

THREE-DIMENSIONAL

0331 0936 2795 2797 2799 4619 4624 4628 5221 5227
5235 5239 5939 7264 7272

TRANSITION

0334 0335 0336 0341 0929 0940 0952 1380 3965 3966
5224 5228 5232 5856 5857 5936 5938 6006 6583 7235

UNSTEADY

0342 1714 2807 2830 3922 3953 4618 5231 5235 5239
5309 6579 6589 7275

WINGS

3453

SEE ALSO--- AERODYNAMIC HEATING --
AEROTHERMOCHEMISTRY -- HEAT TRANSFER, BOUNDARY
LAYER -- TEMPERATURE RECOVERY

BOUNDARY - VALUE PROBLEMS

1238 2297 2348 2358 3495 3496 3497 3662 7261

COMBINED FIELDS

1264 1833 2468 4219 4220 4281 4867 4966 5731 6848
6895

FLUID MECHANICS

1832 3032 4243 4617

HEAT TRANSFER

0414 0419 1018 1022 1023 1027 1664 1665 1668 2301
4027 4035 4037 4721 4725 4754 6000 6003 6005 6009
6012 6017 6647 6650 6651 6653 6655 6656 6675 7369
7370 7372 7373 7386

SOLID MECHANICS

0074 0076 1302 1891 3154 3156 6279 6352

SEE ALSO--- EIGENVALUE PROBLEMS

BRAKES

5839 7188

HRAZING AND SOLDERING

2102 3334 4492

BRIDGES

0250 0853 1500 1507 1509 3319 5137 5598 5776 5829
6464 7083

SEE ALSO--- VIBRATION, BRIDGES

HURBLE DYNAMICS
BUBBLE DYNAMICS *CONTINUED*

2338 2901 2902 2903 3523 4075 5324 6016 6047 6048
6695 7390 7396

SEE ALSO--- BOUNDARY LAYER, BINARY FLOW

BUCKLING

2011

ARCHES AND VAULTS

0139 0140 0151 0753 2605 2606 3206 3758 5025 5609
6259 6301 6302 7012 7016 7043 7044

BEAMS

0152 0748 0750 0751 0752 0757 1348 1375 1376 1377
1379 1866 1973 1998 1999 2008 2601 3202 3204 3745
3746 3781 3782 3785 4360 4978 5024 5597 5659 5662
5664 5672 6351 7036 7037 7038 7039 7040 7041 7042

CREEP

0153 0701 0763 1381 2616 3162 3163 5033 5597 6349
6350 7371

EXPERIMENTAL

0096 0142 0150

LARGE DISPLACEMENTS

1388 2615 3163 4354

PIPES AND TUBES UNDER PRESSURE

7052

PLASTIC

0096 0805 1385 1387 2009 3214 3745 3746 4323 4357
5609 6345 6965 6968

PLATES

0096 0154 0756 0757 0763 0767 0780 1316 1379 1381
2000 2609 2618 3208 3209 3210 3211 3212 3214 3786
3787 3789 4323 4361 4363 5024 5035 5656 5669 6341
6342 6345 6959 6968 7026 7048 7049 7050

SANDWICH CONSTRUCTION

0141 2612 3205 4362 5026 5028 6968 0758 1379 2001
2613 3207 3791 4367 5670 6344 7055

SHells, AXIALLY SYMMETRIC

0143 0144 0146 0147 0148 0149 0150 0701 0759 0761
0762 0766 1382 1383 1384 1385 1386 1387 1388 1389
2002 2004 2005 2006 2007 2009 2614 2616 2619 3213
3788 3790 3792 4364 4365 4366 4368 5027 5029 5031
5032 5034 5668 6343 6346 6347 6350 7007 7053 7054

SHells, CREEP

0701 3215

SHells, STIFFENED

0145 2003 3789 3793 4338 5030

SPRINGS

2601 4342

STRUCTURES

0138 0142 0754 0755 0764 0767 2010 2607 2615 3127
3207 3781 3782 4354 4359 4360 5023 5665 5666 5667
5671 6338 6339 6340 6348 6992 7040 7045 7046 7047

THERMAL

4160 5035

SEE ALSO--- COLUMNS -- COMBINED LOADS

RUFFETING--- *SEE* GUST LOADS
BUILDINGS--- *SEE* STRUCTURES, BUILDINGS
BURNERS

2361

GASEOUS FUEL

0470 0471 2357 2359 4092

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

SUBJECT INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

7

HURNERS *CONTINUED*

SOLID FUEL
6067 6720

HURNING VELOCITY--- *SEE* FLAME, PROPAGATION

C

CABLES AND FLEXIBLE FILAMENTS

0100 0158 0159 0718 2128 2572 3172 4471 4515 5614
6984 7178

*SEE ALSO--- VIBRATION, STRINGS AND CABLES

CALORIMETER
1661

CAMS

0254 1511 1512 2719 3165 5837

CANALS

5075 5169 5472 6833 6834

CAPILLARY FLOW

3456 4549 7359 7557 7565

CASCADES OF AIRFOILS

0022 0973 0974 2518 3435 3988 3989 4145 4146 4661
4671 4672 5196 5401 5402 6618 6619

COMPRESSIBLE FLOW

0372 2258 3431 3432 3434 3438 5888 6117 6614 6615
7306 7307 7310 7314

INCOMPRESSIBLE FLOW

0972 2257 2264 2265 2266 2741 3979 4660 4663 6519
6616 7304 7308 7309

CAST IRON

2075 2076 2100 3872 4487

CASTING

1482 4759

CAVITATION

0282 0959 1549 1554 2154 2156 2739 3928 3974 4560
5172 5173 5462 5866 5963 6513 6517 6619 7214 7300

DAMAGE

0842 0884 5963

HYDROFOILS

0281 1214 1216 1217 1846 2479 3370 3646 4788 4881
5867 6514 6861 6862 6863

PROPELLERS

0378 2155 5969 5970 6517 7318

PUMPS

1552 1553 2262 4673 4675 5865

*SEE ALSO--- NOISE, CAVITATION -- WEAR --
FRETTING

CELESTIAL MECHANICS

0548 0549 0556 3605 4172 5425 5441 6134 6794 6796
6812 7512

GENERAL PERTURBATIONS

0555 1788 4179 5499 6145 6146 6796

PERIODIC ORBITS

0557 2420 5432 7511

PLANETARY THEORY

0560 6135

SATELLITE THEORY

CELESTIAL MECHANICS *CONTINUED*

0555 0564 1181 1783 1788 1792 1793 2420 2429 2439
2973 2976 3597 3599 3604 3608 3614 4171 4172 4178
4826 4828 4829 4834 4835 4836 4837 5428 5436 5438
5440 6133 6140 6145 6147 6148 6802 6804 7513 7514
7522

SPECIAL PERTURBATIONS

3609 4823 4825 4835 5431 5439 6136

THREE BODY THEORY

0548 0549 0557 2431 3602 4164 5425 5432 6134 6793
6794 6805 7511 7512

*SEE ALSO--- ARTIFICIAL EARTH SATELLITES --
INTERPLANETARY PROBES -- LUNAR MISSIONS -- ORBIT
MECHANICS

CENTRIFUGATION

4478

CERAMICS

1479 2074 2075 2076 2667 2691 4427 5114 6446 6496
7157

CERMETS

2080 2691 7157 7170

CHAINS

6361

CHANNELS

0881 1541 1543 1544 2149 2150 2456 2457 2734 2751
3010 3011 3348 3350 3747 3920 3929 4554 4669 5165
5166 5856 5859 5860 5861 5862 5863 5864 5870 5879
6507 6508 6525 6531 6606 6830 6843 7210 7561 7603

*SEE ALSO--- BACKWATER CURVES -- CANALS --
STREAMS, NATURAL

CHEMICAL ENGINEERING

5285

*SEE ALSO--- COMBUSTION -- HEAT TRANSFER --
THERMODYNAMICS

CHEMICAL KINETICS

1083 1747 2787 2835 2836 2837 3491

CHEMICAL THERMODYNAMICS

2289 2291 2843 2848

SEE ALSO COMBUSTION, THERMODYNAMICS

CHIP FORMATION

2077 2668 4424 5762 7118

CHROMIUM

1332

CLAY

0203 0875 1431 2063 3009 3258 3264 3265 3269 4550
5078 5759 6399 6833 7116

CLOUDS

1207 1827 1828 4869 6098

CLUTCHES

3591 4517 5144 5840 7188 7599

COASTAL ENGINEERING

1196 2153 2737 6833 6845 6847

COATINGS

2096 4539 6420

*SEE ALSO--- PHOTOELASTICITY, BIREFRINGENT
COATINGS

CODING AND PROGRAMMING

2172 2844 4698 4711 6450 6468 6618 7216 7314 7360

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

SUBJECT INDEX TO APPLIED MECHANICS REVIEWS, VOL 17, 1964

COLUMNS

5657 5658 5816 7176

CREEP BUCKLING

6284 6959 7056

DYNAMIC LOADING

0798 1378 2008

LARGE AMPLITUDE BUCKLING

4982

PLASTIC BUCKLING

2602 2603 2617 3204 3746 3784 4355 4369 5660 5661
6336 6965

VARIABLE CROSS SECTION

2604 3783 5663 6337

COMBINED LOADS

0092 1480 7187

COMBUSTION

4087 5351 6058

ACOUSTICS

0465 0472 0583 0584 1804 1805 2359 2918 3001 5347
5450 5451 5452 6066 6067 6074 6720 6721 7410

BLOWOFF

2357

FLASHBACK

6062

FUEL JETS

0463 1086 2922 3015 6063 6714

HEAT TRANSFER ASPECTS

7406

IGNITION DELAY

0466 1080 4088 4097 4186 4188 4193 4766 5343

INFLAMMABILITY

5342 7406

INSTABILITY

0584 1703 1805 4764 5347 7409

LIQUID DROPLETS

0464 0473 1080 1088 1703 2360 4766 5348 5352 6065
6069 6724 7409

MECHANISMS

0461 1702 2913 2914 2917 4091 4094 4194 5345 7406
7527

REACTION KINETICS

1088 1094 1700 1704 2442 4088 4767 5344 5345 6063
6069 6150 6898 7405 7528

SMOLDFRING

0461

SOLID FUELS

0467 0476 1083 1085 1086 1087 1701 1704 2912 2915
2918 4090 4097 4765 6059 6064 6068 6712

STABILITY

0463 0473 0583 2357 2361 4762 4843 5452 6150

SUBMERGED

2361

THERMODYNAMICS

0477 4089

UNSTEADY

0914 1187 2445 5346

*SEE ALSO---- AFTERBURNERS -- BOILERS -- BURNERS --

*SEE ALSO---- AFTERBURNERS -- BOILERS -- 000

CHEMICAL KINETICS -- COMBUSTORS --

DETONATION AND DEFLAGRATION -- DISSOCIATION --

EXPLOSION, HYDRODYNAMICS -- FLAME -- FUELS --

FURNACES -- IGNITION -- OPTICAL TECHNIQUES --

PROPELLANTS -- ROCKETS -- SPHYS

COMBUSTORS

0466 0475 2360 2921 4763 5349 6067 7416

COMPLEX VARIABLES

1327 1967 3666 4326 6883

*SEE ALSO---- CONFORMAL MAPPING -- FREE BOUNDARY PROBLEMS

COMPRESSIBILITY OF LIQUIDS

1010

COMPRESSIBLE FLOW

0319 0324 0326 0904 0913 0918 0927 1239 1576 1583
1594 1597 1874 2179 2195 2198 2199 2204 2328 2756
2786 2998 3054 3079 3380 3430 3662 4596 4615 4637
4682 4688 4912 5197 5206 5257 5312 5315 5498 5880
5881 5885 5910 6035 6204 6544 6545 6559 6567 6619
6874 7229 7230 7242 7255 7256 7257

AUGUST FEATURE ARTICLE

HYPERSONIC

0307 0309 0460 0907 0909 0910 0912 0914 1051 1578
1579 1580 1615 2184 2185 2186 2187 2188 2196 2239
2246 2765 2774 3382 3388 3419 3943 4592 4593 4595
4612 4646 5201 5202 5203 5204 5205 5214 5889 5890
5892 5897 5898 5899 5900 5901 5903 5904 5905 5906
5907 5908 5926 5957 6111 6114 6553 6554 6555 6556
6560 6566 6572 7235 7236 7237 7238 7549

HYPERSONIC, AXISYMMETRIC

0304 7293

HYPERSONIC, ONE DIMENSIONAL

0502 2804

STABILITY

1090 3372 6731

SUBSONIC

0505 2238 3047 3938 5191 6117 6546 7226 7227

SUPERSONIC

0300 0908 1133 1138 1582 1584 1593 1749 1750 2176
2177 2178 2180 2181 2761 2768 2769 2771 2775 2785
3077 3374 3375 3384 3940 3941 4108 4591 4596 5195
5196 5198 5199 5200 5212 5249 5356 5358 5887 5888
5891 5892 5893 5894 5896 5904 5918 6548 6550 6551
6552 6576 7231 7233 7240 7381 7473 7475

SUPERSONIC, AXISYMMETRIC

0299 1099 2938 4112 4588 4590 4613 4639 5933 7234
7293

SUPERSONIC, ONE DIMENSIONAL

0315 1713 1736 2805

SUPERSONIC, TWO DIMENSIONAL

0298 0302 0314 0906 1112 2386 3378 4111 4587 4589
7232

TRANSonic

0294 0296 0899 1140 1142 1577 1651 1743 2174 2175
3373 3939 4585 5193 5194 5454 5884 5886 6558 7228

THREE-DIMENSIONAL

3450 4641 4644 7310

*SEE ALSO---- AEROTHERMOCHEMISTRY --

AEROTHERMODYNAMICS -- BODIES, COMPRESSIBLE FLOW

PAST -- BOUNDARY LAYER -- CONDENSATION IN HIGH

SPEED FLOW -- DETONATION AND DEFLAGRATION --

DIFFUSERS -- FREE BOUNDARY PROBLEMS, HODOGRAPH

METHODS -- HEAT TRANSFER -- JETS -- METHOD OF

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

SUBJECT INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

9

- *SEE ALSO---- AEROTHERMOCHEMISTRY -- *CONTINUED*
- CHARACTERISTICS -- NOZZLES -- OPTICAL
- TECHNIQUES -- RAREFIED GASES -- SHOCK WAVES IN FLUIDS -- SHOCK WAVES IN SOLIDS -- TEMPERATURE RECOVERY -- WAVES
- COMPRESSORS
0325 3439 4580 6619
- AXIAL
0974 2268 3443 3983 3988 3989 4660 4668 4670 4671
4672 5269 5967
- BLADES
0976 1486 2268 3431 4661 5196 7309
- CENTRIFUGAL
0373 2261 2446 3982 3985 3986 4669 5270 7316
- MIXED
6617
- *SEE ALSO---- VIBRATION, BLADES
- COMPUTING MACHINES
4246 6873 6894
- ANALOG
0017 0018 0025 1887 3074 3080 3116 3585 3671 3672
3708 4251 4914 5518 5519 5522 5523 5525 5575 6207
6211 6246 6900 6901 6902
- DIGITAL
0016 3076 3077 4290 4913 4915 4916 6204 6209
- *SEE ALSO---- CODING AND PROGRAMMING --
DATA ANALYSIS
- CONCRETE AND MASONRY
3337 7548
- PRECAST
0854 1491 1504 2108 4972 5809
- PROPERTIES
0216 0248 1333 1477 2106 2107 2108 2661 3307 3742
4314 4441 4965 4972 5597 5764 5792 5810 6284 6439
7563
- SLABS
0248
- STRUCTURES
0856 1492 1499 2704 2706 3748 4513 5834
- *SEE ALSO---- PRESTRESSED CONCRETE -- REINFORCED CONCRETE
- CONDENSATION IN HIGH SPEED FLOW
2781
- CONFORMAL MAPPING
0073 0075 0687 0693 0973 1354 1948 2270 3178 3368
3780 4243 4952 4953 4990 5509 5588 5593 6312 6955
6995
- *SEE ALSO---- FREE BOUNDARY PROBLEMS
- CONSOLIDATION OF SOIL-- *SEE* SOIL MECHANICS,
CONSOLIDATION
- CONTACT PROBLEMS
0069 1310 1513 2565 3145 3728 3729 3730 3731 3735
4307 4519 4955 4962 5591 6271 6273 7196
- CONVECTION-- *SEE* HEAT TRANSFER, CONVECTION
- COPPER AND COPPER ALLOYS
0245 0247 1321 4424 4970 5124 5602 6297 6978 6982
6983
- CORROSION
- CORROSION *CONTINUED*
1482 3876 3892 4491
- *SEE ALSO---- STRESS CORROSION -- SURFACE COATING
- COUPLINGS
3990 5159
- CRACK PROPAGATION
0095 0216 0217 0219 0220 0221 0224 0249 0829 0831
0832 0834 0838 1320 1444 1453 2080 2081 2673 2674
2675 2677 3282 3283 3662 3845 3846 3851 3878 4441
4481 4484 4494 4536 5083 5088 5090 5091 5099 5765
5768 5769 5770 5771 6419 6438 6896 7129 7132 7142
7143 7430
- NOVEMBER FEATURE ARTICLE
- *SEE ALSO---- STRESS CONCENTRATION FACTORS
- CREEP
1474 4971 5076 6432
- FERROUS MATERIALS
0080 0705 1332 3738 4316 4317 4967 6282 6957
- NONFERROUS MATERIALS
0080 0084 0241 0242 1504 3257 4506 4970 5124 5611
6960
- NONMETALS
0081 0083 0085 0704 1484 1485 2693 3742 3890 3892
4314 4972 4973 5597 5598 5599 5810 6957
- RUPTURE
0084 0085 1320 1963 4434 4436 4437 5595
- TESTING
0080 0085 0091 1332 1963 1964 3165 3166 3741 4315
4321 4973 5611 5786 6787 6956
- THEORY
0700 0702 0703 0706 1319 1484 1485 1961 1962 1971 2693
3158 3159 3162 3740 4313 4965 4969 4971 5595 5597
6277 6282 6955 6957 6960 7497
- *SEE ALSO---- BEAMS, CREEP -- BUCKLING, CREEP --
HIGH TEMPERATURE PROPERTIES OF MATERIALS --
PLATES, CREEP -- SHELLS, CREEP -- STRESS
RELAXATION -- STRUCTURES, CREEP -- VISCOELASTICITY
- CRITICAL SPEED-- *SEE* SHAFTS, CRITICAL SPEED
- CRUSHING
0826
- CRYOGENICS
1005 1006 1012 1461 2484 4099 4720 5297 7392 7393
7394
- CRYSTALS
0171 0172 0245 0709 1320 1474 1479 1861 1971 2079
2099 2284 2507 3171 3658 3872 4086 4316 4482 4487
4843 5042 5125 6197 6980 7545
- CURRENTS
0351 1203 2469 2470 3632 4217 4867 7296 7571
- CURVE FITTING
0012 0066 1242
- CUSHIONING MATERIALS
6397
- CUTOUTS IN STRUCTURES-- *SEE* STRUCTURES, CUTOUTS
- CUTTING PROCESSES
2079 2667 2668 3843 4425 4426 5300 5762 6406 6407
6652 7067 7118
- FERROUS METALS
3276 3841 4425 5118 6767

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

SUBJECT INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

CUTTING PROCESSES *CONTINUED*

NONFERROUS METALS
4424 5118

NONMETALS
0825 5089 6410 7119

SEE ALSO--- CHIP FORMATION -- DRILLING --
GRINDING -- MILLING -- TURNING

CYCLONES
3016 4206 4207 6174 6836

SEE ALSO--- MICROMERITICS

D

DAMPING CAPACITY OF MATERIALS
1451 2074 3153 3875 4469 4472 4482 5121 5122 7090

SEE ALSO--- CUSHIONING MATERIALS

DAMS
0641 0883 1501 3351 5828 6403

ABUTMENTS
3268 3275

ARCH
1892 4512 6465

EARTH
0019 0593 0815 1502 2664 3274 3834 5079 5081 5471
6402

DATA ANALYSIS
0012 1272 1273 1822 1824 1963 3644 4446 6201 6286
6902 7575

SEE ALSO--- SAMPLING OF DATA

DATA PROCESSING AND REDUCTION
1212 1272 1273 5485

DEFLAGRATION--- *SEE* DETONATION AND DEFLAGRATION

DETTONATION AND DEFAGRATION
0466 0577 0578 1187 1188 1191 2442 2445 2917 4088
4089 4186 4187 4188 4190 4191 4192 4194 4599 4760
4842 4846 5350 6064 6150 6152 6722 7412 7413 7526
7527 7528 7530 7531 7532 7533 7535

SEE ALSO--- EXPLOSION

DIFFERENCE - DIFFERENTIAL EQUATIONS
3661

SEE ALSO--- EQUATIONS, FUNCTIONAL

DIFFERENCE EQUATIONS
1233 3625 5136 5504 6194 6211 6258

SEE ALSO--- EQUATIONS, FUNCTIONAL

DIFFERENTIAL ANALYZER--- *SEE* COMPUTING MACHINES

DIFFERENTIAL EQUATIONS, ORDINARY
0025 0636 1866 1867 2208 2508 2510 2821 3063 4217
5500 5507 5517 5518 6194 6204 6877 6878 6888 6895
6900 6901 7294

APPROXIMATION METHODS
0004 1234 1868 2757 5220 5499 6205 7294

BOUNDARY VALUE PROBLEMS
3065 6195

EIGENVALUE PROBLEMS

DIFFERENTIAL EQUATIONS, ORDINARY *CONTINUED*

6195

INITIAL VALUE PROBLEMS
1234 4907 6204

NONLINEAR
0003 2017 3059 3060 4241 4242 4903 4908 5499 5501
5505 5507 6194 6901

NUMERICAL METHODS
0330 0332 1256 1888 3061 3062 3068 3073 3671 4250
4902 5746 5929 6893

OPERATIONAL METHODS
0004 4683

STABILITY
1870 1871 3667 6895

SEE ALSO--- BOUNDARY-VALUE PROBLEMS -- EIGENVALUE
PROBLEMS -- EQUATIONS, FUNCTIONAL -- INITIAL VALUE
PROBLEMS -- MATRIX METHODS -- NUMERICAL
ANALYSIS -- OPERATIONAL METHODS

DIFFERENTIAL EQUATIONS, PARTIAL
0006 1235 1867 1874 2510 3063 3066 3070 4253 4254
4573 6204 6877 6888 7299

APPROXIMATION METHODS
0009 0633 0933 1605 2238 2757 3964 4618 4622 6526
7216 7217 7263 7264 7278

BOUNDARY VALUE PROBLEMS
1874 3413 4617 5502 5508 6526

EIGENVALUE PROBLEMS
0010 6197

INITIAL VALUE PROBLEMS
0007 1233 6204

NONLINEAR
0331 0644 1616 1873 4616 5505 6196

NUMERICAL METHODS
0005 0329 0334 1253 1254 1255 1415 1869 1872 1873
1888 1890 2206 3072 3077 3399 3663 4249 4626 5504
5508 5937 6196 6587 7216 7259

OPERATIONAL METHODS
0009 1356 4639

STABILITY
3667

SEE ALSO--- DIFFERENTIAL EQUATIONS, ORDINARY --
EQUATIONS, FUNCTIONAL -- METHOD OF CHARACTERISTICS

DEFRACTION--- *SEE* INTERFACE PHENOMENA

DIFFUSERS
4015

SUBSONIC
0373 2161 2752 3982 4580 5878

SUPERSONIC
1596 2212

SEE ALSO--- INLETS

DIFFUSION
1064 1601 2297 2856 3934 4030 4045 4078 5334 5335
5336 6828 6835 6967 7549

ATMOSPHERIC
1205 6835

THERMAL
0645 1690 2869 4071 4750 4751 4970 5327 6648

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

SUBJECT INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

11

- DIGITAL COMPUTERS--- *SEE* COMPUTING MACHINES,
DIGITAL
- DIMENSIONAL ANALYSIS
0011 0082 0415 1328 1556 1876 1877 2072 2726 3054
4543 5169 5510 5515 5606 6619 6843 6897
- *SEE ALSO--- MARINE ENGINEERING, SHIP MODEL
EXPERIMENTS -- SCALE EFFECT
- DIMENSIONS--- *SEE* UNITS AND DIMENSIONS
- DIRECT ENERGY CONVERSION
0486 0491 0492 0493 0997 2284 2285 4009
- FUEL CELLS
0497
- MHD GENERATORS
0500 0501 0526 1119 1120 1121 1122 1127 1719 1744
1745 2397 2398 2405 2933 2955 2956 2957 3559 3568
4109 4125 4127 5353 6762 6763 7425
- SOLAR CELLS
0482 0487 0603 1560 4106
- THERMIONICS
0489 1710
- DISKS
0075 0183 2963 3679 4806 5107 6408 6425
- *SEE ALSO--- ROTATING DISKS
- DISLOCATION THEORY
0073 0093 0709 0712 0795 1312 1320 1455 1475 1479
1971 3129 3130 3738 4317 4318 4424 4482 4980 5602
5613 6297 6980 6981
NOVEMBER FEATURE ARTICLE
- *SEE ALSO--- CREEP -- CRYSTALS -- VISCOELASTICITY
- DISPERSION
0318 3625
- DISSOCIATION
0912 1600 1601 2192 2201 2276 2788 4747
- DOCKS
4551
- DOWNWASH AND UPWASH--- *SEE* WINGS, UPWASH AND
DOWNWASH
- DRAG AND LIFT
0281 2246 3414 5897 6512 6556
- COMPRESSIRLE FLOW
3419 4176 4607 5202
- INCOMPRESSIRLE FLOW
0283 2729 2790 3160 3367 3413 3415 3416 3932 4640
4880 5168 6529 6532 6861 7218 7223
- MEASUREMENTS
0957 2842 6861 7218 7223
- VEHICLES
2842
- *SEE ALSO--- BODIES, FLOW PAST, WITH MODIFIERS --
BOUNDARY LAYER -- HIGH LIFT DEVICES -- MARINE
ENGINEERING, SHIP RESISTANCE
- DRAWING
0094 0212 0249 0816 0820 0824 2666 2670 3835 3838
3839 4418 4419 5083 5120 6292 6298
- *SEE ALSO--- EXPLOSIVE FORMING -- EXTRUDING --
FORGING -- ROLLING
- DRILLING
- DRILLING *CONTINUED*
0597 3842 4862
- DROPS
0264 0275 0366 1198 1199 1200 3014 3946 4202 4203
4204 4547 6172 6532 6853 7553
- *SEE ALSO--- HYDROLOGY, RAINFALL -- SPRAYS
- DRYING
2669 4070 6700
- DUCTILITY
1483 3878 7168
- *SEE ALSO--- FRACTURE, BRITTLE -- STRAIN HARDENING
- DUST
2474
- COLLECTION
0604 0605 4206 6174
- TRANSPORT
4582 4872 6837
- DYNAMIC LOADS--- *SEE* UNDER MODIFIER
- DYNAMICS
1231 1258 2521 2724 3673 3706 4257 4258 4259 4408
6214 6220 6221 6430 6528 7057
- ELASTIC BODIES
0156 0183 0195 0196 0799 1258 1904 3326 3678 3795
4529 6222 6386 6967
- RIGID BODIES
0027 0028 0029 0556 0569 0648 0649 0650 0652 0653
0654 0676 0677 0678 0679 1241 1258 1260 1262 1263
1265 1390 1902 1904 1942 2521 2523 2536 2545 2778
2980 3119 3120 3121 3122 3125 3126 3226 3598 3601
3659 3675 3676 3677 3679 3680 3681 3720 3721 4168
4177 4181 4260 4261 4262 4263 4264 4265 4269 4289
4293 4294 4295 4529 4645 4647 4694 4753 4833 4918
4921 4925 4947 4948 5251 5252 5432 5437 5443 5447
5528 5530 5531 5532 5843 5847 5850 6215 6217 6218
6219 6220 6222 6223 6224 6252 6253 6486 6797 6930
6931 6932 7061 7189 7195 7285 7287 7289 7290 7510
- STRUCTURES
1263 2125 4264 5609 6462
- *SEE ALSO--- AIRPLANE, DYNAMIC LOADS --
IMPACT -- VIBRATION
- E**
- EARTH PRESSURE
1968 3271 4558 4559 5074 5749 5750 5751 5757 7112
- EARTHQUAKES--- *SEE* SEISMOLOGY, EARTHQUAKES
- EIGENVALUE PROBLEMS
0076 0161 0774 1277 1406 3114
- *SEE ALSO--- BOUNDARY-VALUE PROBLEMS
- EJECTORS
2173 2260 4581 6621 7317
- ELASTIC CONSTANTS OF MATERIALS
0247 2097 3299 3860 3863 3889 4310 4459 4497 5119
5787 5792 5802 5804 5805 5808 6274 6429 6445 6447
6785 7170
- ELASTIC FOUNDATIONS
0104 0208 4414,
- BEAMS

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

SUBJECT INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

- ELASTIC FOUNDATIONS *CONTINUED*
 0719 0720 1340 1341 1976 2576 3754 3755 3756 4986
 4987 4988 5750 6300
- PLATES
 0119 0209 0733 1358 1359 1987 2588 3140 3767
- STRUCTURES
 2290 3732 4346
- ELASTIC WAVES--- *SEE* WAVES, ELASTIC
- ELASTICITY
 0006 0059 0060 0635 1232 1297 1309 1945 1947 2505
 2507 2510 2653 3054 3137 3138 3656 3658 3659 3673
 4240 4257 4258 4259 4296 4505 4963 5515 6194 6204
 6214 6254 6262 6877 6882 6934 6935 6936 6938
- ANISOTROPIC
 0061 0070 0072 0694 1311 2566 3148 3149 3733 3734
 3735 3736 4297
- NONHOMOGENEOUS MEDIA
 0067 1308 2571 3139 3141 3142 3146 3151 3725 4297
 4301 4304 4308 5582 6260 6263 6275 6950 6952
- JANUARY FEATURE ARTICLE
- THREE DIMENSIONAL
 1201 1202 1298 1302 2522 2687 3723 5580 5621
- THREE DIMENSIONAL, LINEAR
 0065 0685 1305 1956 2567 3135 3578 3725 3727 3732
 4303 4951 4956 6272 6944 6951
- THREE DIMENSIONAL, NONLINEAR
 1300 1301 3128 4309 6261
- TWO DIMENSIONAL
 0217 0680 2522 4326 5502 5586 5589 5593 6277 7006
- MARCH FEATURE ARTICLE
- TWO DIMENSIONAL, LINEAR
 0063 0683 0684 0687 0688 0693 0695 1303 1304 1306
 1307 1362 1948 1949 1950 1952 2559 2560 2561 2562
 3131 3132 3133 3134 3135 3147 3150 3724 3737 4299
 4300 4950 4952 4953 4954 4994 4999 5581 5590 5594
 6255 6257 6258 6276 6939 6941 6942 6943 7009
- TWO DIMENSIONAL, NONLINEAR
 0681 1946 2558 3136 3722 4298 4302 5852 6940
- *SEE ALSO--- ANISOTROPIC MEDIA -- BEAMS -- COMBINED LOADS -- CONTACT PROBLEMS -- DISLOCATION THEORY -- ENERGY METHODS -- INTERFERENCE FITS -- PLATES -- SHELLS -- STRAIN AND STRESS -- STRUCTURES -- THERMUELASTICITY -- TORSION
- ELASTOMERS
 0226 2082 2293 4814 6278
- *SEE ALSO*--- RUBBER
- ELASTOPLASTICITY
 0218 0711 0713 0850 0865 1323 1324 1505 1967 1968
 2570 3290 3743 3744 3745 3748 3856 3858 4324 4326
 4498 5605 6293 6824 6960 6966 6968 6972 6979 7151
- ELECTRIC ANALOGIES--- *SEE* ANALOGIES
- ELECTRIC STRAIN GAGES--- *SEE* STRAIN GAGES, ELECTRIC
- ELECTRONIC INSTRUMENTATION--- *SEE* INSTRUMENT ENGINEERING, ELECTRONIC
- EMBANKMENTS--- *SEE* DAMS
- EMISSIVITY--- *SEE* THERMAL PROPERTIES, EMISSIVITY
- ENERGY METHODS
 1902 4327 6220 6849 6942 6963 6964 6965 6970 6973
- ENGINES
 0478 0479 1079 4430
- DIESEL
 0409 1089 1197 1705 2923 3015 3991 4450 5348 5351
 6077 7411
- SPARK IGNITION
 0393 0394 5351 7364
- *SEE ALSO--- JET ENGINES -- LUBRICATION -- VIBRATION, ENGINES
- EQUATIONS
 ALGEBRAIC
 1887 2501 2502 2503 2504 3053 3672 4251
- *SEE ALSO--- DIFFERENCE EQUATIONS -- DIFFERENCE-DIFFERENTIAL EQUATIONS -- INTEGRAL EQUATIONS -- INTEGRO-DIFFERENTIAL EQUATIONS -- NUMERICAL ANALYSIS
- EQUATIONS OF STATE
 0257 0258 0401 2144 2294 3470 3481 3919 3921 3944
 4597 4598 4698 4707 4708 5284 5880 5881 6744 7230
- EROSION
 0277 0809 1848 4222 5467 5468 6180 6183 7558
- ERROR THEORY
 0637 0639 3053 4170 4911 5512 6199
- EVAPORATION--- *SEE* MASS TRANSFER, EVAPORATION
- EXPERIMENTAL STRESS ANALYSIS
 4413 4450 5777 7151
- ELECTRICAL
 5516 5783
- MECHANICAL
 0128
- OPTICAL
 2972 4452 4460 4463 5778 7146 7147 7150
- *SEE ALSO--- PHOTOELASTICITY -- PHOTOPLASTICITY -- STRAIN GAGES
- EXPLODING WIRES--- *SEE* WIRES, EXPLODING
- EXPLOSION
 0916 5900 7530 7531 7534
- EFFECTS ON STRUCTURES
 0197 2034 2068 2993
- HYDRODYNAMICS
 0317 2994 4189 4193 4847 4850 7526 7529 7533
- *SEE ALSO--- DETONATION AND DEFLAGRATION
- EXPLOSIVE FORMING
 3840
- *SEE ALSO--- DRAWING -- EXTRUDING -- FORGING -- ROLLING
- EXPLOSIVES
 1189 2443 3840 4089 4192 4842 4843 4844 4845 4848
 6064 6065 6152 6153 6716 7412 7413 7414 7528 7532
 7534 7535
- EXTERNAL FLOW--- *SEE* BODIES, FLOW PAST WITH APPROPRIATE MODIFIER
- EXTRUDING
 0213 0817 0819 0820 0821 1482 1527 2069 2070 2071
 2072 4420 5760 5761 5854 6404

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

SUBJECT INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

13

*SEE ALSO--- DRAWING -- EXPLOSIVE FORMING --
FORGING -- ROLLING

F

FANS
0380 0950 3449 7308

AXIAL
1636 1637 3441 7315

CENTRIFUGAL
0379 3440 3442 3444 7307

FATIGUE
0227 1165 2064 2661 4221 5093 5110 5115 5117 6415
7128 7162

BEAMS
4325

DAMAGE
5790 7126 7127 7130

EXPERIMENTAL METHODS
0846 0847 4321 4968 5775 5791 6435

GEARS
4889

JOINTS
1452 2088 2681 3289 3331 4531 6489 6491

LOW CYCLE
0841 2579

MACHINE ELEMENTS
0234 0835 3303 4236 4443 5146 5772 6434 7163

PLATES
1448

PROPERTIES OF METALS
0837 0839 0840 1329 1474 2083 2085 2087 2101 2104
3286 3301 3302 3305 3849 3850 3851 3852 4446 4447
4471 4479 4486 4490 4968 5095 5096 5111 5115 5602
5770 5773 5774 5805 5806 6420 6421 6422 6436 7132
7135

PROPERTIES OF NONMETALS
1447 3864 3883 3888 4470

RANDOM VIBRATION
2683 4448 7137 7164

ROLLING CONTACT
2086 4891 5766 6190 6871 7584

SHELLS
2680

STRUCTURES
0229 2683 3865 4325 5739 7137 7138 7139

THEORIES
0228 1450 1451 2682 3287 3288 5094 6945 6955 7131
7136

THERMAL
0541 0542 1449 2684 3580 4159 4444 4445 4808 5413
5414 5415 6126 6127 7491 7492

*SEE ALSO--- CREEP

FIBERS AND FABRICS
0247 1478 2105 2692 2693 3884 4496 5808 6445

FILM COOLING--- *SEE* MASS TRANSFER, FILM COOLING

FILTERS
1814

FILTRATION
0589 6828

*SEE ALSO--- SIEVING

FINISHING
2672 3842

*SEE ALSO--- POLISHING

FIRE
2993

SAFETY
2913 4091 7412 7413 7414

FLAME
1003 4087 6058

COMPOSITION
5346 6718 6719 7532 7534

DIFFUSION
2261 4093 4762 6714

LAMINAR
2358 2916 4094 4761 6060 6717 7417

PROPAGATION
1189 2912 4761 6060

QUENCHING
6063

SPECTRA
4093 5346

STABILIZATION
0328 2916 4095 6714 6715

STRUCTURE
0477 0577 0578 1111 2919 2921 4190 6713

TEMPERATURE MEASUREMENT
0477 1085 4096 5344 6061 6712

TURBULENT
1804 2919 4092 5352 6061 6713 6877 7407

VELOCITY MEASUREMENT
5344 6061 6062 6716 6723 7407 7408 7415 7535

VIBRATION
0465 0472 2920 6067

*SEE ALSO--- COMBUSTION

FLAMMABILITY--- *SEE* COMBUSTION, INFLAMMABILITY

FLASHBACK--- *SEE* COMBUSTION, FLASHBACK

FLIGHT
1925 3713 3714 4284 4285 4942

SIMULATION
0570 3111

UNSTEADY
0964 0965 0992 0993 0994 3465 7285 7291 7292

FLIGHT TESTING
2237 2281 3453 3461 3464 3465 5989

AIRPLANES
0364 0384 1157 1158 1166 1761 2276 4647 5283 5954
6584 6635

HELICOPTERS
1170 3452

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

SUBJECT INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

FLIGHT TESTING *CONTINUED*

MISSILES
1751 6602 7286 7350

FLOODS--- *SEE* STREAMS, NATURAL

FLOTATION
0279

FLOW MEASUREMENT

0527 0947 1631 2829 3454 3455 3459 3930 4219 4677
4678 4687 5203 5213 5868 5887 5915 5973 6561 6562
6570 7254 7335 7336

ELECTRONICS
0346 0347

ISOTOPE TYPE
5274 5974

NOZZLES
0305 2753 3935 3947 4614 4682 5980 6625

ORIFICES
0267 0323 0877 2173 4688 5186 5858 7332 7333

VOLUMETRIC METERS
0979 2271 2272 5275 6626

*SEE ALSO--- PRESSURE MEASUREMENT -- HYDRAULIC
STRUCTURES, WEIRS

FLOW THROUGH POROUS MEDIA--- *SEE* POROUS MEDIA,
FLUID FLOW

FLOW VISUALIZATION--- *SEE* OPTICAL TECHNIQUES

FLUTTER
0178 0961 1760 2125 2407 4142 5893 7471

NONCLASSICAL
1131 1139 6770

PANEL STRUCTURES
1135 1136 1137 1754 1755 1756 1757 1758 1759 2408
2409 3566 3573 4143 4144 6111 6114 6116 6769 7473

PROPELLERS
1143

TAILS AND CONTROL SURFACES
1134 1142 3571 4146

TURBO MACHINES
2257 4145 5401 5402 6616

WINGS
0182 0902 1749 1750 1752 1753 2410 4385 4386 6112
6119 6895 7474

*SEE ALSO--- HYDROFOILS, FLUTTER -- OSCILLATIONS
IN FLUID -- UNSTEADY FLOW -- VIBRATION, AIRPLANES

FLYING BOATS--- *SEE* SEAPLANES AND FLYING BOATS

FORGING
0823 1771 3170 3835 5085 5610 6408

*SEE ALSO--- DRAWING -- EXPLOSIVE FORMING --
EXTRUDING -- ROLLING

FOUNDATIONS
0208 3263/3271 5075 5131 5708

*SEE ALSO--- GRILLAGES -- VIBRATION, FOUNDATIONS

FOURIER SERIES--- *SEE* SERIES EXPANSION AND OTHER
APPROXIMATIONS, FOURIER SERIES

FRACTURE
1479 5767 6877 7125 7165

FRACTURE *CONTINUED*
NOVEMBER FEATURE ARTICLE

ANALYSIS
1327 3152 4435 4440 5087 5764 6418 7124

BRITTLE
0215 0219 0220 0221 0222 0225 0226 0825 0832 0833
0834 1327 1445 1453 2083 2084 3284 3848 4318 4438
4439 4442 4484 5595 6417 6446 7122 7123 7133 7134
7171

CREEP
2102 4965 5595

DUCTILE
1479 5803 7123

ENERGY
1314 1315 2069 4965 6833

TESTING
1479 3844 5612 6419

*SEE ALSO--- CRACK PROPAGATION

FRAMES AND BENTS
0852 0860 0861 0862 0864 2109 2110 2115 2116 2117
2118 2695 2696 2697 2698 2701 2709 2711 3057 3078
3320 3322 3862 3895 3896 5519 5821 5822 5823 5825
5826 6450 6452 6461 6471 7172 7182 7183 7184

DESIGN
1333 5136 5138 5820 6291

STRESSES AND DEFLECTIONS
1333 3296

FREE BOUNDARY PROBLEMS
3353 3368 4208 4568 6518 6519

CAVITIES
0292 0381 1550 2738 2754 3356 3357 4561 5875 7212
7213

HODOGRAPH METHODS
0381 3931 5197 5910 5925 6179 6615 7304

FREE CONVECTION--- *SEE* HEAT TRANSFER, CONVECTION

FREE MOLECULE FLOW--- *SEE* RAREFIED GASES

FREQUENCY RESPONSE--- *SEE* AUTOMATIC CONTROL,
FREQUENCY RESPONSE

FRETTING
3305 4436 4437

*SEE ALSO--- CORROSION -- WEAR

FRICITION
0610 1230 1852 1854 2488 3298 4227 4727 4885 4890
4891 4917 6014 6214 6437 6869 6872 7197

ROLLING, SOLID AND SOLID
0622 1227 3649 3866 4229 6191 6871 6930 6931 6932
7117 7584 7595

SLIDING, SOLID AND FLUID
0615 1222 1853 2135 2136 2486 2487 2489 3653 4225
4231 4233 4234 5839 6189 7188 7591

SLIDING, SOLID AND SOLID
0611 0615 0822 1218 1222 1849 1850 1851 1853 2077
2481 2482 2483 2484 2485 2491 2492 2494 3044 3045
3168 3276 3647 3648 3649 3650 3651 3836 3837 3838
4221 4222 4223 4882 4884 4886 4892 5487 5489 5490
6185 6866 7580 7581

*SEE ALSO--- DAMPING CAPACITY OF MATERIALS

FUELS

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

SUBJECT INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

15

FUELS *CONTINUED*

4087 7405

GASEOUS
0475 1700 2914 2922 7408

LIQUID
0462 0473 0474 2921 4095 5348 6065

SOLID
0467 0472 0476 0804 1085 1087 1702 4090 4097 7410

FUEL SLOSHING--- *SEE* LIQUID SLOSHING

FURNACES
0468 0469 1086 3468 4104 5398

G

GAS DYNAMICS--- *SEE* COMPRESSIBLE FLOW

GAS TURBINES--- *SEE* TURBINES AND TURBOMACHINERY, GAS

GASES--- *SEE* UNDER MODIFIER

GATES, HYDRAULIC--- *SEE* VALVES AND GATES

GEARS

0252 0680 1852 3327 3917 4518 4520 4521 4522 4524
5143 6475 6476 6478

DESIGN

1513 1514 1515 2073 2132 2137 2138 4518 4519 4520
4521 4522 4523 4524 5143 6475 6476 6479 6480 6481
6482

FATIGUE AND WEAR

0616 1228 1514 4224 4521 4523 4889

KINEMATICS

0623 1515 2073 2132 3327 3916 4520 4521 4523 5143
6476 6480 6481

LUBRICATION

0252 0616 0623 1228 1851 2496 4224 4890 5492 5495

TRAIN

0252 0253 2132 2134 3327 4520 4522 4523 4524 4525
5143 6476 6477 6478 6479 6480 6481 6482 6488

*SEE ALSO--- VIBRATION, GEARS -- WEAR

GEOPHYSICS

0607 3544 6088 6204 6795 7095 7096

EXPLORATION

0188 0190 4865 4866 6841 7569

GIRDERS

0853 0865 1507 2121 2715 3898 5134 5137 6460

GLASS

0698 0827 2086 3155 4161 4459 5112 5795 7171

GLASS FIBERS

0249 1486 2693 2694 3892 4496 4497 4499

GLIDERS

3420 3590

GRANULAR MEDIA

0071 3006 5464 5465 6167 6168 6173 6829 7548 7554

FLOW THROUGH

2455 3007

GRAPHICAL METHODS

2501 4018 4019 4020 4699 5348 5998

GRILLAGES
0871

GRINDING
0826 0827 0828 2073 2671 2672 3278 4427 4428 4432
4883

*SEE ALSO---- FINISHING

GROUND EFFECT MACHINES
0499 2815 2817 4691

*SEE ALSO---- STOL -- VTOL

GROUND WATER--- *SEE* HYDROLOGY, GROUNDWATER

GUIDANCE SYSTEMS

0053 1287 1288 1289 1290 1291 1292 1293 1918 1927
1936 1937 1938 1939 1940 2552 2553 3712 4284 4285
4286 4944 4945 5574 6245 6247 6927

INERTIAL

1289 1290 1294 1936 1944 3117 3719 4949 6251 6252
6253 6933

MISSILES

0554

*SEE ALSO---- SPACE NAVIGATION AND GUIDANCE

GUIDED MISSILES--- *SEE* MISSILES

GUNS

2680 2690 3466

GUST LOADS

0363 0964 1140 2476 4147 4570

*SEE ALSO---- AIRPLANE, DYNAMIC LOADS

GYROSCOPICS

0055 0056 0676 0677 0678 0679 1289 1290 1294 1295
1943 1944 2556 3117 3119 3120 3121 3122 3123 3124
3125 3126 3701 3719 3720 3721 4260 4273 4293 4294
4295 4947 4948 4949 5530 5531 6218 6219 6251 6252
6253 6930 6931 6932 6933

*SEE ALSO---- GUIDANCE SYSTEMS, INERTIAL -- SPACE
NAVIGATION AND GUIDANCE

H

HANDBOOKS

0857 2098 3335 3872 3905

HARBORS

0968 1551 6606 6609

HARDENING

0094 2099 3750 4482 4494 5798 6295

HARDNESS

0245 0252 1332 3843 4429 5122 5612 6295

TEST TECHNIQUES

3308 3309 3310

HEAT CONDUCTION--- *SEE* HEAT TRANSFER, CONDUCTION

HEAT CONVECTION--- *SEE* HEAT TRANSFER, CONVECTION

HEAT EXCHANGERS

0455 1034 1042 1286 1667 1697 2305 2895 3532 4083
4749 4754 4755 5338 6050 6662 6699 6703 6705 6707
6708 7401 7536

NUCLEAR REACTORS

0455 1026 1042 1679 1698 2333 2897 4755 5310 6027
6055

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

SUBJECT INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

*SEE ALSO--- BOILERS

HEAT PUMPS--- *SEE* REFRIGERATION, AIRCONDITIONING

HEAT RADIATION--- *SEE* HEAT TRANSFER, RADIATION

HEAT TRANSFER

0409 0413 0633 0634 0645 1013 1046 1047 1049 1676
 1689 1692 1694 1695 1831 1889 2296 2299 2300 2314
 2315 2320 2347 2352 2355 2857 2863 2899 3455 3500
 3501 3528 3534 4038 5242 5297 5298 5300 5301 5315
 5326 5330 5336 5338 5339 5340 5453 5525 6003 6004
 6007 6011 6015 6023 6027 6029 6030 6031 6032 6036
 6037 6042 6044 6053 6194 6646 6648 6652 6675 6709
 6877 7321 7323 7324 7325 7326 7327 7328 7352 7354

BLADES, TURBOMACHINERY

3443

BOILING

0438 0439 0441 1057 1091 1686 1687 2333 2334 2335
 2336 2337 2339 2340 2898 2900 2901 2902 2903 2905
 2906 2907 2908 3519 3520 3521 3522 3523 3524 3525
 4049 4065 4066 4067 4068 4069 4071 4072 4073 4722
 4743 4744 4745 4758 5288 5321 5322 5323 5324 5325
 5332 6016 6021 6047 6048 6689 6690 6691 6692 6693
 6694 6695 6697 7385 7388 7389 7390 7391

SEPTEMBER FEATURE ARTICLE

BOUNDARY LAYER

1044 1048 1060 1075 1672 1674 1678 1680 1687 2952
 3505 4036 4622 7266

BOUNDARY LAYER, WITH SEPARATION

1072 2207 2793 4006

BOUNDARY LAYER, WITHOUT SEPARATION

1604 3966 4084

CHEMICAL REACTION PRESENT

0943 1000 1030 1045 1048 1670 2342 2887 4042 4078
 5295 5946 5947 6034 6035

COMBINED MECHANISMS

1043 2310 2867 2888 2889 2890 3494 3503 4724 4738
 5311 6041 6685 6688

CONDENSATION

1058 1688 4076 4746 5303 6049 6050 6051 6698

CONDUCTION, INTERNAL SOURCES

5308 6008 6479 6649

CONDUCTION, STEADY

0014 0411 1016 1017 1024 1025 1026 1665 1669 1675
 2302 2303 2304 2348 2858 2865 2911 3497 3508 4010
 4039 4763 5377 6078 6079 6081 6661 6701 6750 7368

CONDUCTION, UNSTEADY

0410 0414 0415 0416 0419 0435 0635 1014 1018 1019
 1020 1022 1027 1028 1062 1079 1664 1666 1668 2301
 2858 2859 2860 2861 2864 2865 2868 3496 4027 4028
 4029 4031 4032 4033 4034 4035 4037 4039 4040 4041
 4053 4085 4099 4720 4721 4723 4724 4725 4726 4727
 5299 6000 6001 6002 6005 6008 6009 6012 6014 6644
 6647 6649 6654 6655 6656 7369 7370 7371 7372 7373

CONVECTION, FORCED, GASES

0417 0418 0425 0427 0428 0429 0430 0444 0446 0448
 1029 1030 1033 1037 1039 1041 1048 1049 1050 1063
 1067 1072 1650 1672 1673 1675 1681 2300 2306 2308
 2311 2312 2321 2322 2323 2866 2868 2871 2872 2873
 2876 2877 2882 2883 2884 2886 2937 2952 3493 3505
 3513 3530 3533 4036 4042 4044 4046 4047 4052 4054
 4055 4056 4057 4062 4728 4729 4730 4731 4735 4736

HEAT TRANSFER *CONTINUED*

4737 4747 4757 5304 5311 5313 5319 5320 6006 6010
 6013 6018 6019 6021 6024 6030 6031 6032 6036 6037
 6041 6042 6051 6052 6571 6657 6658 6659 6660 6661
 6662 6664 6665 6667 6668 6669 6670 6671 6673 6674
 6676 6677 6678 6685 6702 6704 6706 6710 7375 7376
 7377 7380 7381 7382 7383 7397 7432

CONVECTION, FORCED, LIQUIDS

0355 0417 0418 0421 0426 0430 0441 0445 0448 0451
 0889 1029 1031 1032 1035 1063 1675 2300 2306 2308
 2311 2312 2862 2868 2870 2871 2876 2877 2906 3493
 3499 3501 3513 3533 4036 4044 4046 4067 4077 4728
 4738 4744 4745 4754 5306 5310 5319 5320 5325 6016
 6017 6018 6019 6021 6024 6041 6531 6651 6657 6658
 6659 6660 6661 6662 6704 6706 7375 7376 7377

CONVECTION, FORCED, MIXTURES

0442 0443

CONVECTION, FREE, GASES

0412 0420 0424 0515 0952 1015 1036 1075 1671 2309
 2313 2318 2319 2878 2879 2881 3485 3502 3507 4081
 4741 5302 5305 5307 5308 5309 5934 6020 6022 6025
 6099 6663 6752 7378 7379 7466

CONVECTION, FREE, LIQUIDS

0262 0423 0889 1015 1036 1075 1671 2309 2313 2316
 2319 2878 2879 2881 3502 3507 4051 4732 4733 4734
 4738 5307 5308 5309 5934 6020 6022 6023 6025 6663
 7374 7378 7379 7396

CRITICAL HEAT FLUX

1679 1686 2335 2905 2907 3521 3524 3525 4065 4066
 4067 4744 4745 5325 5332 6692 6694

ELECTRICAL MACHINES

0413 0422 2880

EQUIPMENT, EXPERIMENTAL

6672 6693

EVAPORATION

1058 1677

EXTENDED SURFACES

0435 1015 1069 1070 1071 2895 4061 6055 6056 6670
 6683 6686 6706 6711 7368

FOOD INDUSTRY

5313

G-VARIATION EFFECTS

6695 6696

MEASUREMENTS

0412 0417 0433 0437 0445 0459 0460 1016 1023 1035
 1036 1037 1050 1051 1073 1074 1076 1078 1111 1658
 1677 1699 2298 2316 2319 2337 2339 2349 2353 2356
 2875 2886 2911 3490 3505 3506 3511 3531 3533 4047
 4048 4072 4082 4084 4085 4722 4758 5296 5323 5328
 6055 6092 6663 6664 6668 6669 6670 6673 6682 6701
 6710 7218 7374 7380 7383 7402 7403 7404

MELTING

4041

METEOROLOGY

1646 3033

PACKED BEDS

0459 1077 2346 2869 2874 3494 3526 4730 4731 5331

RADIATION

0434 0435 0437 0453 0454 0515 1040 1043 1052 1055
 1056 1069 1070 1071 1076 1613 1684 1685 1696 2327
 2329 2332 2892 2893 2894 2895 2912 2950 3505 3513
 3515 3516 3529 3556 4058 4060 4061 4062 4063 4064
 4096 4741 4742 5216 5342 6038 6039 6040 6041 6046
 6056 6645 6674 6679 6682 6683 6684 6685 6686 6687
 6688 6711 7368 7385 7386 7387 7466

FEBRUARY FEATURE ARTICLE

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

SUBJECT INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

17

HEAT TRANSFER *CONTINUED*

RADIATION, ABSORBING TRANSMISSION MEDIA
0434 0436 1024 1053 1682 1683 2317 2325 2328 2331
2890 2891 2897 2904 3509 4739 5316 5317 5318 6041
6045 6680 7384

RADIATION, GEOMETRICAL PROBLEMS
0432 0603 1054 2326 2330 3509 3510 4059 4739 4740
6043 6681

RADIATION, INSTRUMENTS
1085 1654 3511 3517 4716 5341 6645 6719 7365

RADIATION PROPERTIES
0432 2326 2893 4060 7530

RADIATION, UNSTEADY
1052 3514 4104

RAREFIED GASES
1033 1590 1602 2873 2888 2889 4057 5210 6033

ROTATING SURFACE
1038 1043 1052 1090 1686 2910 3498 3502 4043 5306
5307 6026 6660 6698 7374

SOIL
4038

SOLIDIFICATION
1014 1059 2909 3495 4041 6002 6650 6653

STAGNATION POINT
0429 1066 1680 2324 2872 2887 3504 5312 5327

SUBLIMATION
1060 1065 2885 2894

SURFACE ROUGHNESS EFFECT
0450 2307 2905 6038

THERMAL STORAGE
0494 0495 0496

TURBULENT
0420 0421 0448 1063 1673 1674 2342 2346 2749 2877
2882 4077 4728 4748 5314 6018 6019 6025 6057 6651
6666 6688 7375 7376 7398 7404

TWO-PHASE FLOW
0442 0443 1058 2311 2312 2340 2347 3518 4074 4075
5303 5316 5319 6010 6696 6707 7403

VIBRATION EFFECT
1032 1044 4748 5305 5453 6057

SEE ALSO-- ABLAITION -- AERODYNAMIC HEATING --
AEROTHERMODYNAMICS -- ANALOGIES, HEAT TRANSFER --
BOILERS -- BOUNDARY LAYER -- COMBUSTION, HEAT
TRANSFER ASPECTS -- CUTTING PROCESSES --
DIFFUSION, THERMAL -- DRYING -- FURNACES --
LIQUID METALS -- MASS TRANSFER, EVAPORATION --
MELTING -- METEOROLOGY, HEAT TRANSFER --
THERMOELASTICITY

HEAT TREATMENT
2102 2672 3738 3749 3875 3876 3879 4244 4481 4494
4495 5085 5120 5122 5123 6446

HEATING AND VENTILATION
4723 4724 4756 6004 6015

SEE ALSO-- REFRIGERATION, AIRCONDITIONING

HELICOPTER
1162 3418

CONTROLS
6649

ROTOR

HELICOPTER *CONTINUED*

1772 1773 1774 1775 1854 2244 2245 3452 5979 6604
6629

STABILITY
1772 1773 4819

HELIUM
1005 1006 2772 4016

HIGH ENERGY FUELS
0339 1083 4097 4100 4765

HIGH LIFT DEVICES
0360 0941 1647 2817 2841 3417 4638 5248 5277 5953
5978 6599 7340

HIGH TEMPERATURE PROPERTIES OF MATERIALS
0240 1971 2099 4315 4480 6432

FERROUS
0243 0705 3579 3874 3875 4316 4486 5121 5806

NONFERROUS
0242 0244 0399 0400 1655 2290 3581 3881 4486 4493
4970 5599 7499

HIGHWAY AND RUNWAY CONSTRUCTION
0808 1441 1442 5131 6454

HUMAN ENGINEERING
0057 0674 1287 1288 3086 3110 3704 3713 3716 4246
4291 4941 4945 5250 5526 5569 6242 6243 6248 6899
6925

SEE ALSO-- BIOMECHANICS

HYDRAULIC JUMP
0881 2151 2152 3349 5259 7209

HYDRAULICS
0263 0885 1503 1641 1821 1876 2147 3631 3901 4215
4868 5476 5477 5478 5479 6192 6843 6844 6846 7570

DENSITY CURRENTS
0274 5165

DYNAMICS OF LIQUIDS
0265 0271 1547 1550 2740 3926

PROPERTIES OF LIQUIDS
2730

SEE ALSO-- BACKWATER CURVES -- CANALS --
CAPILLARY FLOW -- CAVITATION -- CHANNELS -- FLOW
MEASUREMENT -- FREE BOUNDARY PROBLEMS -- HYDRAULIC
JUMP -- HYDRAULIC STRUCTURES -- PIPE FLOW --
SEEPAGE -- STREAMS, NATURAL -- VALVES AND GATES --
WATER HAMMER

HYDRAULIC STRUCTURES
1821 3342 3631 3901 3976 4513 5828 6842 6844 6846
7570

CONDUITS
4658

ENERGY DISSIPATORS
1820 4553 6505

SPILLWAYS
0278 0422 0809 0882 3354

TRANSITION ELEMENTS
1542 3976 5169 5962

WATER TUNNELS
1192

WEIRS
4557 4562 6504

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

SUBJECT INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

- *SEE ALSO---- DAMS -- DOCKS -- PIERS
- HYDROCARBONS
0464 2302 2493 5158 5493 6715 7358
- HYDRODYNAMIC STABILITY
0330 0366 0644 0939 0951 1608 3405 3409 3964 6882
7208
- *SEE ALSO---- BOUNDARY LAYER, STABILITY
- HYDROELASTICITY
0644 4376 6882
- STEADY STATE
2170
- TRANSIENT
2476 2734 6860 6862 6863
- *SEE ALSO---- OSCILLATIONS IN FLUID
- HYDROELECTRIC POWER PLANT--- *SEE* POWER PLANTS,
HYDROELECTRIC
- HYDROFOILS
1215 1776
- CAVITATING
1214 1216 1217 2479 2816 3370 3646 4788 4880 4881
6861 6862 6863
- FLUTTER
3572 3576 4879
- *SEE ALSO---- CAVITATION, HYDROFOILS -- GROUND
EFFECT MACHINES -- STOL -- VTOL
- HYDROLOGY
1821 1822 1824 3630 6509 6842
- FLOOD ROUTING
0269 0270 1823 6180
- GROUNDWATER
1555 1815 3020 3021 4857 7555
- RAINFALL
2472 2473 4202 4860 4861 6176 7555
- RUNOFF
0273
- SOIL AND WATER CONSERVATION
0269 3627
- *SEE ALSO---- METEOROLOGY -- OCEANOGRAPHY --
SEEPAGE -- WELLS
- HYDROPLANE--- *SEE* SEAPLANES AND FLYING BOATS
- HYPersonic FLOW--- *SEE* COMPRESSIBLE FLOW,
HYPersonic
- HYSTERESIS EFFECTS
2101 2105 3205 3749 3752 4498 5602 6298
- ICE
0083 0512 0704 5483
- ICING
- ICING *CONTINUED*
0612 2909
- IGNITION
0339 0462 1080 1081 1082 1189 1700 1702 2913 2914
2915 4090 4192 4766 4848 5342 5343 6059 7407 7414
- IMPACT
0195 1602 3255 3656 6413 7121
- BEAMS LATERAL
0186 0196 0197 3752 5068 5738
- BEAMS, LONGITUDINAL
0090 0185 0798 0801 0803 5734
- EXPERIMENTAL
0186 0197 2444 2992 3064 3152 3752 4391 6386
DECEMBER FEATURE ARTICLE
- HYPERVELOCITY
0339 0580 0581 2444 2991 2992 4409 6154 7536
- PLATES
3152 5061 6391
- SHELLS
0802
- SHIP HULLS
6858 6859
- STRUCTURES
4409 5746
- TESTS OF MATERIALS
0235 0805 1483 3297 3306 3307 3844 3888 4162 5767
5789 5798 5803 6397
- VEHICLES
6154
- WATER
5267
- *SEE ALSO---- SHOCK WAVES IN SOLIDS
- IMPEDANCE METHODS
0656
- IMPINGEMENT OF DROPS--- *SEE* ICING
- INCOMPRESSIBLE FLOW
0610 0613 0627 1556 1557 1651 2497 2750 2756 3051
3361 4219 5498 5885 6619 6874 6888 7392 7393 7394
7396
AUGUST FEATURE ARTICLE
- NONVISCOUS FLOW
0292 0887 0971 1123 1556 1874 2363 2741 2743 3359
3360 3366 3424 3425 3931 3977 4243 4563 4564 4565
4571 4640 4912 6518 6520 6607 6613 6732
- NONVISCOUS FLOW, ROTATIONAL
3359 6520 7573
- STABILITY
0257 1090 1559 1561 1562 1571 1574 1575 1723 1724
1725 2143 2166 2953 3349 3937 4567 5190 5229 5230
5263 5360 5874 5877 5940 5941 6516 6537 6594 6607
7221 7224 7262 7273
- VISCOSITY
0006 0286 0889 1115 1117 1535 1556 1560 1563 1564
1565 1566 1597 1719 1720 1727 2157 2158 2159 2163
2167 2252 2255 2518 2744 2746 2751 2758 2827 3054
3361 3362 3363 3364 3537 3546 3548 3934 3951 4243
4573 4577 4578 4787 4794 4795 4800 4912 5175 5176
5177 5179 5180 5257 5378 5508 5869 6522 6524 6526
6527 6568 6574 6726 6831 6877 7200 7204 7216 7217
7218 7302 7424 7429 7431 7432

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

SUBJECT INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

19

INCOMPRESSIBLE FLOW *CONTINUED*

VISCOSITY FLOW, CHEMICAL REACTIONS
6542

VISCOSITY FLOW, HEAT ADDITION
0262

VISCOSITY FLOW, HIGH VISCOSITY
3160 4543 4545

VISCOSITY FLOW, MASS ADDITION
5234 5875

VISCOSITY FLOW, MULTIFLUID
1569 2744 5211 6502

VISCOSITY FLOW, MULTIPHASE
2164 2165 3012 3365 4575 5181 5182 5183 5211 5469
6533 6535 6536 6575 6830 7218 7220

VISCOSITY FLOW, SECONDARY
1609 2166 3918 3933 3982 4546 4569 5156 6539 6619
7310

VISCOSITY FLOW, STRATIFIED
0365 1559 2169 2458 2747 3008 3366 5184 5185 6541
6543 6591 7215 7221

SEE ALSO-- BODIES, INCOMPRESSIBLE FLOW PAST --
CAVITATION -- DRAG AND LIFT -- FLOW MEASUREMENT --
HYDRAULICS -- HYDROLOGY -- JETS -- MULTIPHASE
FLOW -- ROTATING DISKS, FLOW BETWEEN -- ROTATIONAL
FLOW -- SECONDARY FLOW -- TURBULENCE -- UNSTEADY
FLOW -- VORTEX -- WAKES -- WINGS

INERTIAL GUIDANCE--- *SEE* GUIDANCE SYSTEMS, INERTIAL

INFLAMMABILITY--- *SEE* COMBUSTION, INFLAMMABILITY

INFORMATION THEORY
6887

SEE ALSO-- PROBABILITY THEORY

INFRASONICS--- *SEE* ULTRA- AND INFRASONICS

INITIAL VALUE PROBLEMS
0635 1233 1241 1264 1833

INLETS
5856 5857

INSTRUMENT ENGINEERING
0675 1211 3083 3084 3716 4292 4643 4870 4873 5577
5578 6242 6243 6248 6250 6849 7154

ELECTRICAL
0253 0254 3714 3715 4291 6250 7578

ELECTRONIC
1473 4289 4292

HYDRAULIC
6844

INSULATING MATERIALS
1663 2417 4023

INTEGRAL EQUATIONS
0081 0088 0935 0939 0948 1236 1237 1238 1866 2510
3064 3660 3662 3664 5499 5506 6195 6281

INTEGRAL TRANSFORMS--- *SEE* OPERATIONAL METHODS

INTEGRATION

NUMERICAL
0008 0013 0015 1885

INTEGRO-DIFFERENTIAL EQUATIONS
1599

INTERFACE PHENOMENA
0093 0192 0365 1802 1807 2482 3026 3044 3648 3650
3651 4653 4867 5064 6608 6848 6868 7097

INTERFERENCE AND COUPLING--- *SEE* AERODYNAMIC
INTERFERENCE

INTERFERENCE FITS
6491

INTERNAL COMBUSTION ENGINES--- *SEE* ENGINES

INTERNAL FRICTION--- *SEE* DAMPING CAPACITY OF
MATERIALS

INTERPLANETARY PROBES
0550 0552 1175 2975 4823 4827

CIRCUMNAVIGATION
3606

PLANETARY ENTRY
1182 4913 7507

IONIC PROPULSION--- *SEE* PROPULSION, IONIC

IRREVERSIBLE THERMODYNAMICS--- *SEE* THERMODYNAMICS,
IRREVERSIBLE

ITERATION--- *SEE* NUMERICAL ANALYSIS, ITERATION

J

JET ENGINES
0895 0896 4768 4771 7419

TURBOJET
6072 7207

SEE ALSO-- AFTERBURNERS -- COMBUSTORS --
PULSEJETS -- RAMJETS

JET FLAPS
0050 0058 0960 2817 3417 5248 5277 6601 7284

JETS
0425 0427 0428 0903 1777 1778 1896 2230 2232 2794
3947 3948 3949 4746 4817 5213 5226

COMPRESSIBLE FLOW
0268 0348 0350 0507 0908 1577 1593 2191 2231 2939
3381 4110 4137 4799 4852 4853 5450 5451 6082 6747
6767

COMPRESSIBLE FLOW, DIFFUSERS
1732 5921 6576 7247 7249 7250

COMPRESSIBLE FLOW, EJECTORS
0299 0924 3950 5211 5212 5215 5920 5922 7248 7251

COMPRESSIBLE FLOW, NOZZLES
0297 0298 0301 2997 5918

INCOMPRESSIBLE FLOW
0290 0291 0351 0892 0893 0929 1570 1572 1573 1574
1575 2167 2168 2748 2749 2754 4579 4581 4582 4583
4584 5178 5185 5187 5188 5359 5876 6541 6732 7262
7553

INCOMPRESSIBLE FLOW, DIFFUSERS
3568

INCOMPRESSIBLE FLOW, EJECTORS
0894 0895 0898

INCOMPRESSIBLE FLOW, HYDRAULIC
0271 0274

INCOMPRESSIBLE FLOW, NOZZLES

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

SUBJECT INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

JETS *CONTINUED*
3921 6542

*SEE ALSO---- FLOW MEASUREMENT, ORIFICES -- NOZZLES

JET STREAMS--- *SEE* METEOROLOGY, JET STREAMS

JOINTS
1350 1516 4532 4535 5145 5146

BOLTED
1522 1523 1524 1525 4533 4537 6489 7196 7197

GLUED
0238 1526 3337 3885 3886 4538 5116 5147 5152 5153
6493 6496

PINNED
1452

RIVETED
1523 1524 1525 4534

WELDED
3330 3331 4484 4536 5148 5149 5150 5151 7198

*SEE ALSO---- ADHESIVES -- FATIGUE, JOINTS

K

KILNS--- *SEE* FURNACES

KINEMATICS

0652 0653 0654 1258 1262 1263 1265 1512 1517 1518
1519 1520 1521 1902 2131 2133 2134 2138 2139
2140 2721 2722 2723 2724 2725 3122 3324 3325 3674
3676 3677 3678 3680 4239 4262 4263 4265 4904 4918
4921 5528 5841 5842 5844 5845 5846 5847 5848 5849
5850 6214 6221 6222 6483 6485 7191 7192 7193 7194

ACCELERATION

0028 0647 0651 1518 1519 1520 2130 2131 2133 2134
2138 2139 2140 2523 2721 2722 2723 2725 3324 3325
4918 5837 5841 5842 5844 5845 5846 5848 5849 6487
7191 7193 7194

LINKAGES

1518 1519 1520 1521 2130 2131 2133 2134 2136 2137
2138 2139 2140 2721 2722 2723 2724 2725 3324 3325 7
5841 5842 5843 5844 5845 5846 5847 5848 5849 5850
6481 6482 6483 6484 6485 6486 6487 6488 7189 7190
7191 7192 7193 7194 7195

RIGID BODY

1518 1519 1520 2139 2140 2721 2722 2723 2725 3324
3325 5520 5842 5844 5845 5846 5849 5850 6482 6484
6487 7191 7193 7194

SYNTHESIS

1511 1512 1517 1518 1519 1520 1942 2130 2131 2133
2134 2138 2139 2140 2719 2722 2723 2724 2725 3324
5841 5842 5844 5845 5846 5847 5848 5849 6482 6483
6485 6487 7189 7190 7191 7192 7193 7194 7195

VELOCITY

0648 1512 1517 1518 3324 3325 3674 5837 5841 5842
5844 5845 5846 5849 6484 6487 7190 7191 7193 7194

*SEE ALSO---- GEARS, KINEMATICS

KINETIC THEORY

1007 2844 4706

COLLISION MODELS

0395 0397 1656 5990 5994

GASES

0389 0396 1599 6098 6637

KINETIC THEORY *CONTINUED*

IONIZED GASES
6744 6759 7439 7453

LIQUIDS
6636

PLASMAS
0504 0513 1102 1108 1109 1655 1715 1722 1735 2368
2373 2374 2381 2385 3543 3551 3554 4141 4777 4783
4785 5370 6089 6091 6093 6725 6743 7454 7461

*SEE ALSO---- RAREFIED GASES

L

LAMINAR FLAME--- *SEE* FLAME, LAMINAR

LAMINAR FLOW
0418 1551 1832

COMPRESSIBLE FLOW
0300 0905 1219 2951

INCOMPRESSIBLE FLOW
0262 1220 1558 1570 1571 2733 2744 2751 3537 3932
3937 4702 5176 5178 6170 6521 6524 6525

*SEE ALSO---- CAPILLARY FLOW

LANDING AND TAKEOFF
0379 1162 4410

AERODYNAMIC ASPECTS
0360 1644

STRUCTURAL ASPECTS
1161 1163

LANDSLIDES--- *SEE* SOIL MECHANICS, LANDSLIDES

LAPPING--- *SEE* GRINDING

LEAD
3276 5613

LIFT AND DRAG--- *SEE* DRAG AND LIFT

LIMIT DESIGN--- *SEE* STRUCTURES, LIMIT DESIGN

LINEAR PROGRAMMING
1247 1248 1250 1254 1875 1880 3703 4909 6200 6204

LINKAGES--- *SEE* KINEMATICS, LINKAGES

LIQUID METALS
0374 0426 0458 0884 1057 1096 1122 1473 1662 1852
3499 3880 4051 4076 5310 6028 6075 6869 7388

LIQUID SLUSHING
0369 0785 1627 1629 1630 2254 3977 4919 5261 5527
5960 5965 6613 7298 7301 7302

LOCOMOTIVES--- *SEE* VEHICLES, LAND

LOW TEMPERATURE PROPERTIES OF MATERIALS
0242 0398 1012 2484 4488 5125 6866

LUBRICANTS
0610 1230 1852 1853 1858 2492 2495

DRY FILM
2491 2494 4890 4892 4898 6869

GAS
3049 3050

LIQUID

Review Numbers:	1-527	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

SUBJECT INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

21

LUBRICANTS *CONTINUED*

0212 0615 0616 0622 0623 1222 1228 1473 1859 2493
2666 2671 3649 3651 4230 5492 5493 6872

SOLID

1229 1850 2483 2484 2490 2491 3045 3651 5487

LUBRICATION

0610 1230 1852 1853

BOUNDARY

0613 0615 1218 1222 2135 2488 2496 2729 3048 3649
3651

DRY FILM

2491 2494 4890 4892 4898 6869

ELASTO-HYDRODYNAMIC

4228 4229 4889 5766 6189 7599

HYDRODYNAMIC

0212 0618 0620 1220 1221 1716 1851 1855 2486 2487
2489 2496 2666 3046 3048 3049 3652 3653 4229 4235
4891 4893 4894 4895 4896 4897 5492 5494 5496 6188
6191 7203 7217 7585 7586 7587 7588 7589 7591 7592
7594 7596 7598 7601 7602

HYDROSTATIC

0614 0619 1219 1223 1224 1225 1226 1857 2666 3047
3050 3654 4888 6186 6187 7593 7597 7600 7601

SOLID

1229 1850 2483 2490 2491 5487

*SEE ALSO--- BEARINGS -- FRICTION -- GEARS -- WEAR

LUNAR MISSIONS

2425 2975 2978 2981 4185 5431 5434 6810 7512 7519

APOLLO MISSION

0567 3615 4182 6809 7524

CIRCUMNAVIGATION

0565

LUNAR LANDING

1797 2424 2434 2989 5448

LUNAR RETURN

1786 2423

LUNAR SATELLITE

1177

LUNAR SURFACE

0573 0574 1186 2474 3266 6817 7521

M

MACHINABILITY

2075 2076 2077 2078 4492 5118

MACHINE DESIGN

0253 0255 0256 1516 1521 1942 2128 2129 2132 2135
2137 2138 2139 2140 2719 2720 2724 3341 3345 3346
3915 4450 4516 4517 4518 4522 4525 4527 4528 4529
4530 4555 5141 5142 5143 5144 5838 5839 5840 5843
6214 6475 6478 6480 6486 6488 7187

*SEE ALSO--- BELTS -- CAMS -- CHAINS --
CLUTCHES -- COUPLINGS -- KINEMATICS, LINKAGES --
SCREWS -- SEALS -- SPRINGS

MACHINE TOOLS--- *SEE* TOOLS

MAGNESIUM AND MAGNESIUM ALLOYS

0084 1476 2100 3171 3876 4492

MAGNETO-FLUID-DYNAMICS

MAGNETO-FLUID-DYNAMICS *CONTINUED*

0424 1097 1556 1676 1712 2204 2283 2362 2796 2931
2990 5901 6658 7441
OCTOBER FEATURE ARTICLE

AERODYNAMIC APPLICATIONS

2394 3566 5389 6105

CHANNEL FLOWS, COMPRESSIBLE

0500 0501 0505 0522 0523 0526 1099 1100 1112 1127
1713 1714 1721 1736 1738 2364 2382 2386 2934 2937
2938 2951 2952 3536 3539 3560 4107 4108 4109 4111
4134 4782 5353 5354 5356 5358 6078 6092 6099 6729
6757 6763 7428 7434

CHANNEL FLOWS, INCOMPRESSIBLE

1077 1107 1115 1117 1558 1716 1719 1720 1727 2363
2383 2393 2755 2949 3535 3537 3546 4776 4787
4794 4795 4800 5184 5357 5378 5385 6079 6081 6726
6762 7424 7429 7431 7432 7456

CYCLOTRON RESONANCE-PARTICLE APPROACH

1110 2388 2950 3549 3557 6739

DIFFUSION IN PLASMAS

0517 0530 1108 1109 1715 1734 2367 2368 2381 2946
2948 3551 3555 3561 4116 4122 4123 5377 5391 6090
6094 6099 6727 6743 7449 7450 7451

ENERGY CONVERSION

0526 1119 1120 1121 1744 1745 2284 2397 2398 2399
2933 2955 2956 2957 3559 3560 4125 4134 4136 5359
5392 6732 6762 6763 7425 7458

EXPERIMENTAL METHODS

0517 0524 0527 0529 1110 1111 1128 1130 1558 1737
1746 2380 2390 2402 2406 2954 3558 4128 4140 4680
4794 4797 5399 6764 6765 6766 7466 7467

HEATING OF PLASMAS

1113 1114 1124 1129 1737 1739 1747 2365 2395 2403
2405 2939 2945 2960 3570 4110 4127 4137 4140 4784
4798 4799 4801 5374 5396 6082 6108 6742 6747 6749
6751 6759 6766 6767 7433 7435 7439 7469

INTERACTION OF PLASMAS WITH EXTERNAL FIELDS

0502 0506 0507 0515 0522 0525 0531 0533 1101 1103
1116 1123 1717 1718 1722 1731 1748 2400 2401 2936
2958 2959 3535 3538 3556 3567 3569 4124 4126 4775
4778 4781 4790 4798 5361 5362 5375 5390 5393 5394
5398 5400 6088 6095 6096 6107 6109 6752 6761 7452
7456 7458 7460

OBSTACLES, FLOW AROUND

0518 0521 1116 1742 1743 2369 2372 2378 2379 2394
3550 3565 3566 4112 4131 4132 4789 5357 5369 5386
5387 5388 5389 6105 6106 6733 6745 6760 7427 7462

ROTATING FLOWS

1126 1717 3540 3544 5378 6728 7434 7468

SHOCKS IN PLASMAS

1098 1742 1743 2391 2934 2954 3562 3563 4128 4129
4130 4139 4786 5356 5364 5369 5379 5381 5382 5384
6098 6103 6104 6753 6755 6756 6757 7463

SHOCKS IN PLASMAS, COLLISION FREE

7464

SHOCKS IN PLASMAS, NORMAL

0516 0518 0528 1128 1130 1741 3564 4115 5355 5380
5381 5383 5395 5399 6101 6102 6753 6754 6758 7444
7470

SHOCK TUBES, ELECTROMAGNETIC

0519 0532 1098 2366 2371 2390 2391 2954 2955 3562
4128 4129 4138 4786 4797 5355 5380 5383 6101 6102
7467 7470

STABILITY

0508 0512 1100 1101 1105 1723 1724 1725 2953 3546
3547 3549 4114 4120 4124 4126 4779 4787 4790 4792

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

SUBJECT INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

- MAGNETO-FLUID-DYNAMICS *CONTINUED*
 4793 5360 5361 5365 5366 5367 5397 6084 6731 7426
 7440
- TURBULENCE-CONTINUUM APPROACH
 0948 2384 3541 3542 3544 4113 4775 4776 4794 4795
 4800 6083 6730 6751 7436 7463
- WAVES, ELECTROMAGNETIC
 0510 0511 0514 0948 1104 1105 1106 1114 2387 2396
 3552 3553 4115 4121 4783 4791 5368 5370 6089 6097
 6734 6735 6736 6738 6739 6746 6748 7457 7459
- WAVES, INTERACTION WITH BOUNDARIES
 1730 2375 2392 2396 2404 2943 5368 6080 6735 6736
 6737 6748 7438 7447
- WAVES, MAGNETOHYDRODYNAMIC
 0503 0509 0516 1726 1728 1729 1730 1731 1733 1739
 2376 2377 2380 2389 2935 2940 2944 2947 3545 3557
 4113 4114 4117 4118 4119 4132 4778 4780 5363 5364
 5371 5372 5373 5379 5395 6080 6085 6086 6087 6100
 6740 6741 6758 7437 7438 7442 7443 7444 7446 7455
- *SEE ALSO*-- ARCS -- DIRECT ENERGY CONVERSION --
 PLASMA PHYSICS -- PROPULSION, PLASMA
- MANOMETERS
 0383 0978 1537 1643 3994 7319
- MANUALS
 3334 4511
- MARINE ENGINEERING
 1212
- SHIP DESIGN
 0870 1509 2715 2716
- SHIP GUIDANCE
 3638
- SHIP HYDRODYNAMICS
 1212 1776 2478 3367
- SHIP HULLS
 1404 1840 2123 3645 4876 5515 5706 6472 6473 7084
 7102
- SHIP MODEL EXPERIMENTS
 1213 1837 1838 1843 1844 2475 2477 3639 3641 3645
 4876 4877 6472 6856 6858
- SHIP MOTION
 0054 0057 0666 0670 0671 0672 0673 0674 1212 1840
 1842 1844 3036 3037 3038 3039 3041 3042 3641 3642
 4876 6530 6857 7084 7086 7303
- SHIP MOTION, SEAS
 1212 3039 3040 3643 3644 7085
- SHIP MOTIONS, INLAND WATERWAYS
 1212 3638
- SHIP PROPULSION
 0375 0775 1212 1213 3446 3638 5690 6365 6864
- SHIP RESISTANCE
 1212 1836 1837 1838 1839 1845 2475 3037 3042 3367
 3638 3639 4875 4877 6856
- SHIP SLAMMING
 1651 1843 3640 3644
- SHIP STABILITY
 1837 1840 1841 2480 2738 3640 6863
- SHIP TESTS
 3912 6054
- SHIP TOWING
 1841
- MARINE ENGINEERING *CONTINUED*
- SHIP WAVES
 1847 2475 4651 6856
- *SEE ALSO*-- HYDROELASTICITY -- HYDROFOILS --
 IMPACT, SHIP HULLS -- PROPELLERS, MARINE --
 RUDDERS -- SHAFTS -- STRUCTURES, SHIP -- VEHICLES,
 SEA -- VIBRATION, SHIP HULLS
- MARINE PROPELLERS-- *SEE* PROPELLERS, MARINE
- MASS TRANSFER
 0449 0450 0451 0456 0457 0458 0927 1020 1021 1031
 1058 1059 1060 1061 1064 1065 1670 1677 1689 1690
 1691 1692 1693 1694 1695 1846 2307 2336 2342 2345
 2346 2347 2348 2349 2355 2885 2899 3277 3519 3520
 3526 3530 4003 4028 4030 4045 4070 4077 4078 4079
 4080 4081 4747 4750 4751 4756 5314 5319 5321 5322
 5323 5326 5327 5328 5329 5330 5333 5334 6010 6013
 6029 6034 6047 6048 6049 6053 6057 6666 6689 6690
 6691 6698 6699 6700 7385 7388 7389 7390 7397 7398
 7402
- EVAPORATION
 0320 0440 1858 2492 3045 4752
- FILM COOLING
 0446 0447 2343 2344 4749 6052 6533 6534 7218 7400
- FORCED CONVECTION
 0327
- SWEAT COOLING
 0439 0444 1062 1066 2352 3527
- *SEE ALSO*-- ABLATION -- DIFFUSION -- DRYING --
 MIXING
- MATERIAL TEST TECHNIQUES
 0232 0233 0236 2046 3286 3847 3848 3850 3860 3869
 4470 4471 5108 5115 5774 6977
- BENDING
 0836 2694 7158 7159 7160
- COMPRESSION
 3165 3306 4201 4467 6433 7032 7157
- HARDNESS
 4474 4475 4476 4477 5112 5113 5612 5793 5794 5795
 6481 7167
- HIGH TEMPERATURE
 0839 3165 4315 4809 4810 5611 5788 6128 6129 7496
 7498 7503 7504
- LOW TEMPERATURE
 4813 4814 6131 7505 7506
- MACHINES
 0091 1964 1965 3165 3166 4320 6265 6441 6442
- NONDESTRUCTIVE
 0237 0844 0845 0846 0847 3311 3312 3867 3868 3870
 3871 3872 4483 5114 5116 5796 5797 5799 5800 5801
 6309 7166
- NOTCH
 1329 1444 1448 2082 2085 2686 3856 6264 6419
- SHEAR
 0843 3855 3882 4499 7161
- TENSION
 1483 3165 3166 3297 3861 4468 4473 5088 5109 5110
 5111 5603 7032 7155 7156
- TORSION
 3166 3891 4489 5110
- *SEE ALSO*-- CORROSION -- CREEP -- FATIGUE --

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

SUBJECT INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

23

SEE ALSO--- CORROSION -- CREEP -- FATIGUE
IMPACT, TESTS OF MATERIALS -- X-RAY TECHNIQUES

MATERIALS, PROPERTIES
0223 0240 0245 0544 0545 1443 1446 1447 1473 1663
2082 2097 2098 2200 2293 2676 2691 2968 2969 3279
3285 3579 3749 3872 3873 4469 4480 5092 6416 6423
6432 6443 6444 7121
JANUARY FEATURE ARTICLE

SEE ALSO--- UNDER SPECIFIC MATERIALS OR
PROPERTIES

MATHEMATICAL METHODS--- *SEE* UNDER MODIFIER

MATRIX METHODS
0014 0117 0636 0645 0848 0859 0863 0864 1232 1342
1361 1862 1863 1864 1866 1951 2505 2506 2514 2560
3054 3055 3057 3058 3087 3094 3316 3656 3663 4239
4240 4285 4331 4347 4512 4900 4901 4926 4983 5128
5711 5829 6199 6206 6209 6459 6461 6878 6881 6960
7279

DETERMINANTS
0001 3056 4748 6878

EIGENVALUES
0002 0630 1883 5503 6891 7301

LINEAR EQUATIONS
0629 1252 1253 1865 1872 1886 2509 2516 3056 5518
5519 6879 6880

LINEAR PROGRAMMING
1248 1250

SEE ALSO--- NUMERICAL ANALYSIS -- VECTOR AND
TENSOR METHODS

MEASUREMENT METHODS--- *SEE* UNDER MODIFIER

MECHANISMS--- *SEE* MACHINE DESIGN

MELTING
4026 4712

MEMBRANES
0115 0723 1352 1355 1980 2510 3763 4997 5625 5626
6303 6304 7069

SEE ALSO--- VIBRATION, MEMBRANE

MERCURY
3492 3880 4491

METALLURGY
2098 2691 4449 5090 5613

POWDER
2074 2075 2080 4431 6410 7170

METEOROLOGY
1206 1207 1825 1828 1831 2237 3035 4086 5486

APPLIED
1244 1821 3634 4872 4874

ATMOSPHERE
1829 4832 6204

CLOUD PHYSICS
1827 4869 5483 6853 7575

DYNAMICS, CIRCULATION AND VORTICITY
2471

DYNAMICS, EQUATIONS OF MOTION
2471 2472 2473

DYNAMICS, KINEMATICS
1208

METEOROLOGY *CONTINUED*

DYNAMICS, NUMERICAL METHODS
3034 4871 6204

DYNAMICS, PERTURBATION THEORY
3633*

DYNAMICS, PRESSURE CHANGE MECHANISMS
0602

EVAPORATION
0606 1205

JET STREAMS
1826 7574

MEASUREMENTS
0606 0607 0608 1211 1835 3635 4873 6854 6855 7350
7576 7577 7578

MICROMETEOROLOGY
0606 1205 1830 3256 4220 5482 6848 7578

PLANETARY ATMOSPHERES
0607 6850

ROCKETS AND SATELLITES
0607 0608 0609 3637

SYNOPTIC, ANALYSIS AND FORECASTING
1208 1209 1834 7577

TURBULENCE
0606 1205 1209 1210 6852 7574 7575

UPPER ATMOSPHERE
0602 0607 0609 1718 1835 3033 3636 4785 6740 6851
6852 6854 6855 7576 7579

WIND PRESSURE
0608 4570 4873

SEE ALSO--- ASTROPHYSICS -- DIFFUSION,
ATMOSPHERIC -- HYDROLOGY -- ICING -- OCEANOGRAPHY

METHOD OF CHARACTERISTICS
0478 2735 2998 3006 4133 4586 4613 5604 6196 6545
6547 7255

MICROMERITICS
1196 1197 2455 2458 3281 5465 5832 6413 6414 6829
6835

SEE ALSO--- DROPS -- DUST, TRANSPORT --
PARTICLES -- SEDIMENTATION -- SEDIMENT
TRANSPORT -- SPRAYS

MILLING
1848 2074 3842 4432 6411

MINES
3013 5089 5750

MISSILES
0361 0566 0568 1180 1751 1787 1926 2243 2256 2437
2979 2983 3421 3422 3461 4184 4821 4831 4833 5252
6143 6602 7286 7509 7538

SEE ALSO--- ROCKETS -- SPACE NAVIGATION AND
GUIDANCE -- SPACE POWER -- SPACE PROPULSION --
SPACE VEHICLE DESIGN -- SPACE VEHICLE
STABILIZATION

MIXING
0358 3347 4653 4746

LAMINAR
0353 0357 4578 5184

TURBULENT
0348 0352 0357 2216 2748 2749 5240 7205

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

SUBJECT INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

*SEE ALSO--- MASS TRANSFER

MIXTURES
0925 3372 6626GAS
0924 2777 2781LIQUID
0592 0873 4547 4548 5157 6502 7201SOLIDS
0717MODEL STUDIES
5097 5098 5776 6424 6426COMBUSTION
0468 1549 2917 7416FLUID MECHANICS
0082 0301 0306 0468 1207 1539 1545 1825 1826 3030
3034 3980 3984 3986 4219 6509 6847SOLID MECHANICS
0230 0717 1322 3044 3751 5475 5606 5642 6838 6840*SEE ALSO--- MARINE ENGINEERING, SHIP MODEL
EXPERIMENTS -- STRUCTURES, MODELS

HOLDING--- *SEE* CASTING

MOLYBDENUM AND MOLYBDENUM ALLOYS
0805 4315 4493 4980MULTIPHASE FLOW
0403 0527 0888 0891 1091 1569 2851 5181 5182 5183
5352 6535 6536 6830 7218 7220**N**

NAVAL ARCHITECTURE--- *SEE* MARINE ENGINEERING

NAVIGATION
3351

*SEE ALSO--- SPACE NAVIGATION AND GUIDANCE

NICKEL
1332 2102 2103 4316 4317 4494 4495 5085NITROGEN
0398 2739 3470NOISE
3619 4854 6157 7541ABATEMENT
0585 0895BOUNDARY LAYER
1614 2234 3969 5454CAVITATION
5866ENGINES
0585 2446 3003 4852 4853 5450 5451 7538 7547GENERATION
1804 1806 6166 6822 7540 7544RANDOM
4634NONDESTRUCTIVE TESTING OF MATERIALS--- *SEE* MATERIAL
TEST TECHNIQUES, NONDESTRUCTIVE

NON-NEWTONIAN FLOW

NON-NEWTONIAN FLOW *CONTINUED*

0259 0872 0873 0931 0940 1531 1532 2144 2744 2801
3009 3921 3922 4545 4616 5154 5155 5156 5853 6501
6502 6527 7201 7202 7203 7260NOTCH SENSITIVITY
0218 0244 0707 1329 1444 2570 4324 4490 5803 6405
6438 7165 7168

NOTCH TEST--- *SEE* MATERIAL TEST TECHNIQUES, NOTCH

NOZZLES
0296 0305 0925 2781 2926 3404 3945 3947 4632 4633
7315COMPRESSIBLE FLOW
0297 0301 0312 0333 0523 0895 0903 0913 0922 0923
0944 1598 1599 2203 2222 2785 2851 2933 3386 3395
3396 3941 3980 4612 4614 4817 5163 5214 5268 5914
5918 5919 6108 6575 6576 6639 7228 7238 7246 7357INCOMPRESSIBLE FLOW
0896 1595 2168 2173 3015 4662 5186 7261

*SEE ALSO--- FLOW MEASUREMENT

NUCLEAR PROPULSION--- *SEE* PROPULSION, NUCLEAR

NUCLEAR RADIATION
5599 7350NUCLEAR REACTORS
0081 0888 1473 1738 5599

*SEE ALSO--- HEAT EXCHANGERS, NUCLEAR REACTORS

NUMERICAL ANALYSIS
1833 2468 2469 2470 2471 2500 3071 3416 4586 4589
4611 4721 5301 5333 5833 5923 6548 6650 6873 7384DIFFERENTIATION
1901 3067HARMONIC ANALYSIS
0166INTEGRATION
0008 0013 0015 0416 1886 2515 3067 3068 4250 4609
6889 6893ITERATION
0088 1966 3896 5499 5820 5822 5823PERTURBATION METHOD
1325 2571 2746 2755 3063 5499 5853 6976RELAXATION METHODS
0860 0861

*SEE ALSO--- METHOD OF CHARACTERISTICS

O

OCEANOGRAPHY

1203 1204 1212 1826 1834 2253 2469 2470 2737 3026
3027 3028 3029 3030 3031 3032 3632 4216 4217 4218
5480 5481 7296 7571 7572 7573*SEE ALSO--- CURRENTS -- HYDROLOGY --
METEOROLOGY -- SEISMOLOGY -- TIDES -- WAVES,
OCEAN

OCEAN WAVES--- *SEE* WAVES, OCEAN

OPEN CHANNELS--- *SEE* CHANNELS

OPERATIONAL METHODS

0014 0090 3665 3666 4256 4901 4905 4906 4929 5561
6878

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

SUBJECT INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

25

*SEE ALSO---- DIFFERENTIAL EQUATIONS, ORDINARY,
OPERATIONAL METHODS -- DIFFERENTIAL EQUATIONS,
PARTIAL, OPERATIONAL METHODS

OPERATIONS RESEARCH

0639 0640 0641 0642 0643 1246 1247 1248 1250 1251
1884 2512 2513 4246 4247 4911 4915 6201 6202 6886

*SEE ALSO---- LINEAR PROGRAMMING -- QUEUE THEORY

OPTICAL TECHNIQUES

0341 2274 2831 4000 4002 4003 4026 4050 4093 4461
5104 6431 6534 7146 7339 7365 7417

HIGH SPEED PHOTOGRAPHIC

0519 1188 4092 4190 4194 5396 6724 6751 7205

INTERFEROMETRIC

1645 2954 6428

SCHLIEREN

1189 1701 2954 3432 4004 4690

SHADOWGRAPHIC

1572 1701 2920 4194 7349

*SEE ALSO---- PHOTODELASTICITY -- PHOTOPLASTICITY

ORBIT MECHANICS

0026 0559 1789 2971 3462 3612 4165 4822 4913 5430
7287 7517

ORBIT DETERMINATION

0029 0648 0649 0651 1260 2440 2984 4163 4830 5435
6141 6215 7508

ORBIT MODIFICATION

0388 0550 0551 0554 0562 1176 4174 4828 6132 6138
6806 7517

ORBIT PREDICTION

0548 0555 0651 0652 0654 1175 1180 1780 1782 2421
5428 6139 6807

ORBIT SELECTION

0651 6810

TRACKING

2440 2978 4832 6799

TRAJECTORY OPTIMIZATION

0550 0551 0552 0553 0558 0562 0563 1174 1176 1178
1781 1785 1786 2422 2428 2430 2977 3610 4163 4166
4167 4169 4821 4824 4827 5429 6144 6801 6803 7516

ORIFICES--- *SEE* FLOW MEASUREMENT, ORIFICES

OSCILLATIONS IN FLUID

0325 0366 1583 2251 2255 3424 3425 3574 3975 4120
4376 5170 6515 7207 7218

AIRFOIL AND WINGS, COMPRESSIBLE FLOW

0902 1752 2789 4591 4594 6113

AIRFOIL AND WINGS, INCOMPRESSIBLE FLOW

1131 4385 4386

LIQUID IN A TUBE

1537 3426 3428 4919 5397

*SEE ALSO---- FLUTTER -- UNSTEADY FLOW --

VIBRATION, FLUID -- WAVES

P

PANELS

1135 1136 1137 2408 2409 3902 7071 7185

FLAT

PANELS *CONTINUED*

1193 1194 2108

*SEE ALSO---- PLATES

PARACHUTES

1779 3423 3592 3593 3594 3595 3596 4694

PARTIAL DIFFERENTIAL EQUATIONS--- *SEE* DIFFERENTIAL EQUATIONS, PARTIAL

PARTICLES

3997

DYNAMICS

3016 4000 4205 4679 5464 6169 6831 6835 7551 7552

MEASUREMENTS

1193 2460 6828 6831 7218

*SEE ALSO---- DROPS -- DUST, TRANSPORT -- GRANULAR MEDIA -- SPRAYS

PAVEMENTS--- *SEE* HIGHWAY AND RUNWAY CONSTRUCTION

PERFORMANCE

1001 4772

AIRPLANES

1159 1160 4771 6072 6073

ENGINES

0393 0394 6077 7419

HELICOPTER

1162 1170 1171 1173 1775

PERMAFROST

5756

PERMEABILITY OF SOILS--- *SEE* SOIL MECHANICS,
PERMEABILITY

PETROLEUM DEPOSITS--- *SEE* RESERVOIR ENGINEERING

PHASE CHANGES

5990 5991

PHOTODELASTICITY

1457 1458 2091 2092 3854 3855 3917 4454 5098 5776
5780 5781 5782 6427 7145

BIREFRINGING COATINGS

1456 1487 2095 2570 2685 2686 5099 6425 7147

DYNAMIC

0088 2090 7144

MATERIALS

1487 5779 7144

THREE DIMENSIONAL

0231 1459 1460 2089 3291 3292 3911 4451

PHOTOGRAPHY

HIGH-SPEED

7107

PHOTOPLASTICITY

2570 3856 7148

MATERIALS

1487

PHYSICS

0390 0628 1095 1231 2370 2499 3052 3469 4239 4900
6058 6193 6873 6874

PIERS

2736 4554

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

SUBJECT INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

PILES
0205 0206 0207 0814 1438 1439 1440 2065 2662 2663
3270 3272 3832 6398 5399 7211

PIPE FLOW
0266 1538 2161 2800 3345 3931 3936 3956 5155 5872
5876 5942 6520

CAPILLARY
6278

EXPERIMENTAL RESULTS
1091 3918 3933 6278 7276

FLEXIBLE WALLS
0970

LAMINAR
1533 2146 2160 2744 2746 4544 5175 5879 6501 6611

NONCIRCULAR PIPE
1533 2162 2164 2235 2733 3918 4545 4546 4569 5161
5879 6278 6531 6533

NON-STEADY
2172 2269 2727 3426 3920 5266 5879 5973

POROUS WALLS
0874 4631

ROUGHNESS AND WALL SHEAR
0873 1539 5155

TRANSITIONAL
0275 2144 2148 2731 3009 3426 3937 3965 5160 5857
6501 6537

TURBULENT
0355 0928 0955 1198 1628 2235 3344 3492 4545 5162
5870 5949 5950

TWO PHASE
1091 1198 2142 2164 2165 3009 3013 3019 3365 4575
5181 5182 5183 5467 5468 6169 6173 6533 6535 6536
6830 7218

PIPES AND TUBES
0092 1466 1505 3886 5086 6453 6468 6494 7120

UNDER PRESSURE
0077 0121 0126 0147 0251 0697 0702 0711 0735 1362
1958 3157 3191 3201 3772 3908 3910 3911 4535 5586
5654 6283 6315 7024 7052 7152

SEE ALSO-- BUCKLING, PIPES AND TUBES UNDER
PRESSURE

PIPING SYSTEMS
0251 2732 3371 4552 5266 5872 6208 6468

PLANNING SURFACES--- *SEE* HYDROFOILS

PLASMA PHYSICS
0406 0407 0476 1097 1711 1712 2362 2835 2848 2928
2930 3717 4011 5988
OCTOPER FEATURE ARTICLE

DIAGNOSTICS
0517 0519 0528 0531 1110 1652 1737 1746 2390 2402
2406 2954 3558 4796 5399 5981 5982 6627 6764 6765
7465 7467

FUSION
0532 0533 1098 1740 1748 2388 2399 2400 2401 2402
2950 2958 2959 3556 4138 4786 4798 5361 5362 5374
5375 5393 5394 5395 5396 6107 7452 7465

GENERAL THEORY
0504 1116 1722 1735 2364 2367 2368 2382 2385 2782
3543 3554 3561 4777 5376 6091 6093 6725 6744 7428
7453 7454 7461

PLASMA PHYSICS *CONTINUED*

OSCILLATIONS
0511 0514 1102 1104 1726 1729 1732 1733 2942 2943
5365 5372 5373 5376 6100 6734 7437 7449 7451

STABILITY
0508 0512 1105 1724 1725 1726 1728 2374 2953 3547
3549 4779 4792 4793 5365 5366 5367 6084 6731 7426
7440 7457

TRANSPORT PROPERTIES
0513 0517 0530 1108 1109 1655 1715 1734 2381 2946
2948 3467 3551 3555 4116 4122 4123 4785 5280 5391
6090 6092 6094 6717 6727 6743 7449 7450 7451

WAVES
0503 0509 0510 0516 1106 1114 1728 1729 1730 1734
1739 1740 2373 2375 2376 2377 2380 2387 2389 2392
2404 2935 2940 2941 2942 2947 3543 3545 3552 3553
3557 4117 4118 4119 4121 4774 4778 4780 4783 5363
5364 5368 5370 5371 5981 5982 6085 6086 6087 6089
6097 6735 6736 6737 6738 6740 6741 6746 6748 7442
7445 7446 7448 7455 7457 7459

SEE ALSO-- ARCS -- DIRECT ENERGY CONVERSION --
KINETIC THEORY -- MAGNETO-FLUID-DYNAMICS --
PROPELLION

PLASTIC WAVES--- *SEE* WAVES, PLASTIC

PLASTICITY
3054 4296 4453 5515 5813 6966
NOVEMBER FEATURE ARTICLE

MATHEMATICAL THEORY
0097 0258 0715 0834 1330 1970 2568 2569 3167 3169
4323 4328 4329 4542 4974 4976 5505 5604 5605 5608
6287 6288 6290 6294 6877 6962 6963 6964 6967 6972
6973

MATHEMATICAL THEORY, THREE DIMENSIONAL
3748 5084 6288 6293 6294 6404

MATHEMATICAL THEORY, TWO DIMENSIONAL
0077 0097 0214 1966 1967 2072 2570 2571 3170 3747
4326 4974 4975 4977 4978 4979 5083 5084 5604 5605
5608 6287 6288 6296 6973 6979

MEASUREMENTS
0092 0094 0096 0098 0099 0246 0717 1322 1331 1332
1475 1970 2071 2568 2570 2686 3171 3290 3836 3837
3838 3861 4976 5086 5126 5606 5611 5612 5763 5783
5785 6405 6867 6964 6977 6978 6982 6983 7120

PHYSICAL THEORY
0098 0212 0213 0214 0258 0816 0817 0819 0820 0821
0823 0824 2666 2668 2670 3168 3170 3747 3835 3838
4421 4422 4542 4977 5083 5084 5610 5760 5761 6292
6404 6407

SEE ALSO-- BEAMS, PLASTIC DEFORMATION --
BUCKLING, PLASTIC -- CREEP -- CUTTING PROCESSES --
DISLOCATION THEORY -- DRAWING -- DUCTILITY --
ELASTOPLASTICITY -- ENERGY METHODS -- EXTRUDING --
PLATES, PLASTIC DEFORMATION -- ROLLING -- SHELLS,
PLASTIC -- SOIL MECHANICS -- STRAIN AND STRESS,
RESIDUAL -- STRAIN HARDENING --
THERMOPLASTICITY -- VISCOELASTICITY --
VISCOPLASTICITY

PLASTICS
0612 1473 1482 1483 1485 1487 1527 1850 1858 2096
2098 3045 3883 3888 3889 3891 4420 4472 4810 4973
5153 5832 6447 7119 7156 7158

REINFORCED
1483 1486 2483 2694 3864 3887 3892 4497 4499 5119
5831 6443 6445

PLATES
0133 0859 1254 1872 2112 2506 2510 3054 3198 3285

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

SUBJECT INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

27

- PLATES *CONTINUED***
 3656 3766 3854 4253 5765 6993 6994 7070 7093 7196
- ANISOTROPIC**
 0059 0135 0731 0746 1995 1996 2113 3193 4352 5022
 5655 6331 6332
- BENDING**
 0116 0118 0727 0732 1357 1361 1365 1368 1463
 2583 2586 2587 2609 3177 3575 3739 3767 4331 4336
 4351 5000 5003 5623 5628 6306 6308 6309 6954 6958
 7026
- BENDING, ANISOTROPIC**
 6974
- BENDING, ELASTIC**
 0170 0713 0728 0729 1326 1356 1372 1981 1984 1994
 2585 2600 2611 3179 3180 3181 3182 3183 3764 3765
 4332 4333 5632 6312 6995 6996 6997
- BENDING, PLASTIC**
 0087 0713 0726 1326 3195 4323 4334 4337 6291 6969
 6974
- BENDING, STIFFENED**
 7001
- CIRCULAR**
 0134 0713 1982 2593 2596 2599 3179 3739 4323 4504
 5001 5002 5627 5633 5634 5812 6325 6330 6954 6958
 6969 6992 7028 7035
- COMBINED LOADS**
 1986 4330
- CREEP**
 0081 0087 0707 3159 3739 4324 6277 6954 6958 6960
- FINITE DEFORMATIONS**
 0725 2588 2610 4345 5585 5629
- FOLDED**
 0867 6307 7015
- NONHOMOGENEOUS**
 4144 5015 5020 5631 6974
- PERFORATED**
 0689 0743 1327 1966 2091 2095 3197 3902 4305 4958
 6305
- PLASTIC DEFORMATION**
 0713 1327 1966 1985 2570 3178 3194 3283 3314 3777
- STIFFENED**
 1145 1371 1468 1985 2597 2610 2677 3193 3209 3778
 4348 5009 5019 5633 6310 6311 6324 6342 6492 6975
 7017 7019
- TENSION**
 1327 1966 2570
- THICK**
 0747
- TORSION**
 1468
- WEAKENED**
 0062 0066 0119 0724 0744 1306 1307 1354 1983 2563
 2963 3197 5588 6256
- *SEE ALSO*-- BUCKLING, PLATES -- DISKS -- ELASTIC FOUNDATIONS, PLATES -- ENERGY METHODS -- FATIGUE, PLATES -- IMPACT, PLATES -- NUMERICAL ANALYSIS, RELAXATION METHODS -- PANELS -- SANDWICH CONSTRUCTION -- VIBRATION, PLATES
- POLISHING**
 0827 2669 3277 4428 4429 4430
- POLLUTION**
- AIR**
 0291 1257 6837
- POLYMERS**
 0085 0261 0696 0708 0873 1473 1484 1527 1529 1534
 1965 2344 2145 3155 3890 3918 4470 4498 4548 5157
 6877 6961
- *SEE ALSO*-- PLASTICS
- PORE PRESSURE**
 0204 3274 7564
- POROUS MEDIA**
 0295 2466 2519 4003 4860 4861 6829 6897
- ANISOTROPIC**
 1816 3017 5470 6829
- CHARACTERISTICS**
 0202 1818 2461 3022 3023 4859
- COMPRESSIBLE FLUID FLOW**
 6828
- ELASTICITY**
 3007 7562
- FLUIDIZED BEDS**
 0279 2455 5467 5468
- INCOMPRESSIBLE FLUID FLOW**
 2462 4209 4576 5175 5873 6493 6497 7558 7560
- TWO PHASE FLUID FLOW**
 0590 0595 0596 3018 4208 4210 6181 7556
- *SEE ALSO*-- FILTRATION -- HYDROLOGY, GROUNDWATER -- SEEPAGE -- SOIL MECHANICS, PERMEABILITY
- POTENTIAL THEORY**
 0295 3662
- FLUID FLOW**
 0292 0971 0973 1556 2736 2757 3077 3079 3368 3445
 3931 5186 6618 6619
- FLUID FLOW, AXISYMMETRIC**
 0886 4563
- FLUID FLOW, PLANE**
 1131 2750 4564 4565 4571 5878
- FLUID FLOW, WITH SINGULARITIES**
 2741 2743 6619
- SOLID MECHANICS**
 2569 3064 5604
- POWER PLANTS**
 0486
- HYDROELECTRIC**
 1477 1501 2106 3354 3975 5079 5171
- NUCLEAR**
 0484 0485 4704
- SPACE VEHICLE**
 0482 0483 0484 0485 0490 4704 7363
- STEAM**
 3468 6070 7152 7153
- PRECIPITATION**-- *SEE* HYDROLOGY, RAINFALL
- PRESSURE MEASUREMENT**
 0382 0383 0385 0916 0978 0980 0981 1467 1641 1642
 1643 2278 2279 2280 2828 2829 3268 3275 3993 3994

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

SUBJECT INDEX TO APPLIED MECHANICS REVIEWS, VOL 17, 1964

PRESSURE MEASUREMENT *CONTINUED*
 4684 4685 6193 6630 7321 7322 7323 7324 7325 7326
 7327 7328 7329 7330 7331 7334 7348 7349

GAGES
 3642 5203

TRANSDUCERS
 4693 5272 5273 5971 5972 5976 6624 7320

SEE ALSO--- FLOW MEASUREMENT -- MANOMETERS

PRESSURE VESSELS
 0411 1496 2679

ANALYSIS
 0830 0868 2120 2712 2713 5596 5830 5831 6289 6290
 6467

DESIGN
 0742 2598 6466 6495

TESTING
 1464 1506 2092 2094 2688 3292 3909 6333 7133 7134

SEE ALSO--- BOILERS -- PIPES AND TURES, UNDER
 PRESSURE

PRESTRESSED CONCRETE
 0856 0857 1494 1495 3319 4513 5133 5598 5818 5819
 6455 6456 6457 7145 7178

PRESTRESSED STRUCTURES--- *SEE* STRUCTURES,
 PRESTRESSED

PROBABILITY THEORY
 3242 3747 4239 6462 6887 7177

SEE ALSO--- ERROR THEORY

PROCESS CONTROL--- *SEE* AUTOMATIC CONTROL, PROCESSES

PROJECTILES
 1190 1259 2991 2992 3152 4416 6154 6900

SEE ALSO--- MISSILES

PROPAGATION OF CRACKS--- *SEE* CRACK PROPAGATION

PROPELLANTS
 0804 1900 2350 7354

IGNITION SENSITIVITY
 0462 4844 4845 6153

PERFORMANCE
 0480 0481 1001 1094 1443 1447 1707 2292 2922 4104
 4771 6723 7423

SEE ALSO--- HYDROCARBONS

PROPELLERS
 0784 2815 3445

AIRPLANES
 2814 3445 6788 7476

MARINE
 0375 0376 0377 0378 1213 1638 1639 2129 2270 3446
 3447 3448 4674 4878 5969 6517 6622 6864 7318

SEE ALSO--- CAVITATION, PROPELLERS -- VIBRATION,
 PROPELLERS

PROPERTIES OF MATERIALS--- *SEE* UNDER MODIFIER

PROPELLION
 0498 1092 1703 2237 3374 3424 3425 4101 4105 4772
 6722

IONIC
 0524 1096 2783 2932 4135 4136 4773 6075 6076 7421

PROPELLION *CONTINUED*
 OCTOBER FEATURE ARTICLE

JETS
 0499 1095 4102 4768 4770 6073 6074

NUCLEAR
 4185 6137

PLASMA
 0476 1113 1124 1125 1127 1128 1129 1748 2366 2371
 2395 2930 3536 3538 3559 3569 4133 4134 4135 4138
 4139 4781 5390 5400 6096 6761 7456

PULSEJETS
 7419

PUMPS
 0980 1197 1634 2260 2269 3013 3341 3439 3991 5167

AXIAL
 2260 3433 4673 6620

CENTRIFUGAL
 0374 0884 1552 1553 2260 2262 2263 2264 2265 2266
 2267 3444 3569 3984 3987 5271

MIXED
 2267 4675

POSITIVE DISPLACEMENT
 2260 5968

SEE ALSO--- CAVITATION, PUMPS -- EJECTORS

Q

QUEUE THEORY
 1249 3668 3669 4248 5511 5513 6887

R

RADIATION DAMAGE
 0081 3751

RADIATION, HEAT--- *SEE* HEAT TRANSFER, RADIATION

RADIOACTIVE ISOTOPES
 3841

RAILS
 1470 3866 4479 5115 5793 5798 6216

RAILWAY CONSTRUCTION
 4408 4483 4539 5571 6216 6248 6477

RAINDROPS--- *SEE* DROPS

RAINFALL--- *SEE* HYDROLOGY, RAINFALL

RAMJETS
 0479 0922 0923 4770 5350 6715 7419

RAREFIED GASES
 0321 0909 0917 0926 1500 1591 1592 1593 1600 2188
 2198 2199 2200 2201 2286 2782 2786 3390 3391 3951
 4610 4611 4683 5205 5209 5906 5915 6676 6677 6678
 7245

BEAM EXPERIMENTS
 4608 6569

FREE-MOLECULE FLOW
 0320 0322 0323 0391 0921 1581 2202 2784 3396 4605
 4606 4607 4609 4679 5208 5210 5916 6033 6035 6036
 6037 6567 6572 6573 6646 7239 7244 7246

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

SUBJECT INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

29

HAREFIED GASES *CONTINUED*
OCTOPER FEATURE ARTICLE

GAS SURFACE INTERACTIONS
3390 3392 4605 4606

JUMP CONDITIONS
5917

SLIP FLOW
0431 2210 2214 3390 3391 3392 3394 3951 5917 6571
6573 7244

TRANSITION FLOW
5914 6566

REACTION KINETICS--- *SEE* COMBUSTION, REACTION
KINETICS

REDUNDANT STRUCTURES--- *SEE* STRUCTURES, STATICALLY
INDETERMINATE

REFLECTION--- *SEE* INTERFACE PHENOMENA

REFRACTION--- *SEE* INTERFACE PHENOMENA

REFRACTORIES--- *SEE* FURNACES

REFRIGERATION, AIRCONDITIONING
3487 3488 4013 4069 4073 5290 6643 7355

REGENERATORS
0999 5289

SEE ALSO--- HEAT EXCHANGERS

REINFORCED CONCRETE
4507 5132 5815 5816 6453 6454

CONSTRUCTIONS
1493 2714 3206 3318

CRACKING
4513

DESIGN, ELASTIC
2714

DESIGN, LIMIT
1333 5917 6458 7182

DESIGN, ULTIMATE STRENGTH
1480 2706 4314 5809 5814 6448 6449 7185

EXPANSION AND CONTRACTION
0248

PLASTIC FLOW
1333 4314 4506 6298

SHRINKAGE
4972

STRUCTURAL ANALYSIS METHODS
1492 2119 3315 5131 5597 6284 7176

TESTS AND TESTING
0101 0248 1471 1959 3317 3318 5130

SEE ALSO--- ARCHES AND VAULTS -- BEAMS,
REINFORCED CONCRETE -- CONCRETE AND MASONRY --
FATIGUE -- SHELLS, REINFORCED CONCRETE -- STRAIN
AND STRESS -- STRUCTURES

RELAXATION METHODS--- *SEE* NUMERICAL ANALYSIS,
RELAXATION METHODS

RESERVOIR ENGINEERING
0592 0594 0595 0597 0598 1195 1813 1817 2464 3019
3024 5470 6178 6832 7556

SEE ALSO--- FILTRATION -- GEOPHYSICS.

SEE ALSO--- FILTRATION -- GEOPHYSICS, 00
EXPLORATION -- POROUS MEDIA -- SEEPAGE -- WELLS

RESIDUAL STRESS AND STRAIN--- *SEE* STRAIN AND
STRESS, RESIDUAL

RESONANCE--- *SEE* VIBRATION, STABILITY

RHEOLOGY
0078 1527 1528 1529 1536 2141 2727 2728 3920 3923
3924 3925 4541 4543 4546 4549 5852 5853 6498 6499
6500 7199 7202 7218 7581

COLLOIDS AND SUSPENSIONS
0260 2726 3340 4550 6501 7204

MEASUREMENTS
0875 1537 2145 2146 2726 3340 4550 5160

SEE ALSO--- NON-NEWTONIAN FLOW -- PLASTICITY --
VISCOELASTICITY -- VISCOPLASTICITY

RINGS--- *SEE* ARCHES AND VAULTS

RIVERS--- *SEE* STREAMS, NATURAL

ROAD BEDS--- *SEE* HIGHWAY AND RUNWAY CONSTRUCTION

ROCK
0095 0199 0717 0825 1481 1968 3262 3273 4532 5749
5750 5751 5752 6403

ROCKETS
0050 0447 0479 1001 1093 1703 1707 1777 1778 1796
1903 2343 2438 2922 2984 2985 3374 3613 4832 5442
5720 6073 6149 6612 6813 6814 7418 7420 7538

CONTROL
1798 1903 3617 3942 3948 3949 3950 4283 4937 4941
4942 4943 4944 4945 6246

LIQUID FUEL
0474 1088 4101 7409

NOZZLES
1094 2292 2926 3491 5649

SOLID FUEL
0465 0472 1087 1443 1702 1805 2688 2915 2918 4090
4764 4769 4965 5347 6059 6066 6067 6068 6720 6721
6723 7410 7415

SEE ALSO--- METEOROLOGY, ROCKETS AND
SATELLITES -- MISSILES -- SPACE POWER -- SPACE
PROPELLION -- SPACE VEHICLE DESIGN

RODS--- *SEE* BEAMS

ROLLING
0818 0822 0823 3168 3171 3836 3837 3877 4421 4422
4423 4485 6295 7117 7169

SEE ALSO--- DRAWING -- EXPLOSIVE FORMING --
EXTRUDING -- FORGING

ROPES--- *SEE* CABLES AND FLEXIBLE FILAMENTS

ROTATING DISKS
0173 3300 4478 6334

FATIGUE
5595

FLOW BETWEEN
0260 1313 1634 5154 5871 6335

STRESSES
0137 0702 1353 1766 1962 1997 3200 3780 4427 6937
6956 7034 7484

SEE ALSO--- VIBRATION, ROTATING DISKS

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

SUBJECT INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

ROTATIONAL FLOW

0259 1126 1529 1531 1532 1560 1561 1562 1564 1567
 1568 1745 2157 2251 2252 2270 2749 3355 3380 3921
 3972 3982 4567 4572 4580 4659 5156 5189 5190 5874
 5967 6523 6527 6539 6540 6605 6619 6728 7200 7209
 7215 7218 7434

RUBBER

0091 0261 2853 4223 4321 4965 6285 7595

*SEE ALSO---- ELASTOMERS

RUDDERS

2476 5515

RUNOFF--- *SEE* HYDROLOGY, RUNOFF

RUNWAYS--- *SEE* HIGHWAY AND RUNWAY CONSTRUCTION

S

SAMPLING CONTROL

1915 1924 5114

SAMPLING OF DATA

1272 1273 1915 1924 2529 2530 3717 6925

SAND

0205 0807 4416 6167 6168 7109 7110 7112

SANDWICH CONSTRUCTION

0731 1496 2595 3280 3291 3771 3775 4144 4350 5014
 5020 5648 5651 5812 6290 6323 6326 6975 7007 7020
 7021 7022 7051 7054

*SEE ALSO---- BUCKLING, SANDWICH CONSTRUCTION

SATELLITES

0027 0047 0051 0052 0053 0649 0650 0655 1017 1046
 1052 1056 1185 1685 1905 2327 2474 2491 2495 2892
 2980 3508 4163 4177 4180 4837 5298 5438 5439 5443
 5447 6140 6215

*SEE ALSO---- ARTIFICIAL EARTH SATELLITES

SCALE EFFECT

0017 2107 3984 3986 4320 6619 7311 7312 7313

SCHLIEREN METHOD--- *SEE* OPTICAL TECHNIQUES

SCREWS

0075 1522 3328 3674 4451 4531 7197

*SEE ALSO---- JOINTS, BOLTED

SEALS

0617 4228 4526 4527 4528 6866

SEAPLANES AND FLYING BOATS

1161 1163 1168

SECONDARY FLOW

INCOMPRESSIBLE

0285 0972 2166 2731 5161 6180

SEDIMENT TRANSPORT

0879 0880 1195 2456 2457 3008 3010 3011 3012 3013
 5466 6169 6173 6830 6832 6833 6834 6844

SEDIMENTATION

0272 0589 1194 1195 2664 4551 5081 6847

SEEPAGE

0592 0593 0594 0599 1546 4417 4858 4859 5471 5472
 5473 5755 6176 6179 6402 7108 7561

UNSTEADY FLOW

0600 1819 2463 3024 3627 3629 4211 6175 6177 7559

*SEE ALSO---- WELLS

SEISMOLOGY

0601 1201 1202 1417 1422 2051 2467 4212 4213 4214
 4864 5475 5497 6838 6840 7566 7567 7568 7569

EARTHQUAKES

0815 1502 3899 4510 5474 6462 6463

EXPLOSIONQUAKES

0591 4863 4865 4866

MICROSEISMOLOGY

7571

*SEE ALSO---- GEOPHYSICS, EXPLORATION

SEMICONDUCTORS

0506

SERIES EXPANSION AND OTHER APPROXIMATIONS

0765 1881 3660 4978 5499 6883 6884 6893

FOURIER SERIES

0166 0254 6878

SERIES IN OTHER SETS OF FUNCTIONS

4975 4979

SERIES OF OTHER ORTHOGONAL FUNCTIONS

0646

SERVOMECHANISM--- *SEE* AUTOMATIC CONTROL,
 SERVOMECHANISMS

SETTLEMENT OF SOILS--- *SEE* SOIL MECHANICS,
 CONSOLIDATION

SEWERAGE

1895

SHAFTS

6517 6864

CRITICAL SPEED

2039 2629 2631 3229

WHIRLING

0168 0776

SHEET STRINGER PANELS--- *SEE* PLATES, STIFFENED

SHELLS

0059 0124 0128 0130 0131 0133 0174 0231 0738 0739
 1991 1993 2120 2712 3054 3076 3190 3293 3656 3903
 4237 4254 5515 5626 5635 5638 5639 5642 5812 6262
 6314 6874 6877 6994 7073 7078

ANISOTROPIC

3196 4382 5021 6974 7029 7030

BENDING, ARBITRARY SHAPE

0737 3196

BENDING, AXIALLY SYMMETRIC SHAPE

0122 0129 0745 1239 1324 1364 1369 1370 1505 1988
 2590 3187 3189 4343 4346 4364 5012 5646 6319 6320
 6321 6998 6999 7002 7008 7025

BENDING, STIFFENED

3304 7013

CONICAL

0089 4344 5636 5643 5703 6412

CREEP

0089 1317 1319 1960 3159 4969 5601 6283

CYLINDRICAL, LOCAL BENDING

1374 3907 7077

CYLINDRICAL, STIFFENED

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

SUBJECT INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

31

SHELLS *CONTINUED*

0741 0855 1496 6329 7027 7079

CYLINDRICAL, THICK

2680 3159 3724 3748 3772 4969

CYLINDRICAL, THIN

0114 0121 0224 0735 0830 1324 1632 1960 1990 2589
2594 3768 4324 4339 4340 5005 5007 5601 5702 6290
6316 6412 6969 6974 7000 7005 7074 7080 7081

CYLINDRICAL, WITH OPENINGS

1506 3909 4509

ELLIPSOIDAL

0737

GENERAL THEORY

0125 3192 5639 5641 6322 7006

HYPERBOLIC

3188

LARGE DEFORMATION

0714 4345 4347 4349 5653

NONHOMOGENEOUS

0122 0132 1370 1373 3779 4349 5016 5018 6318 6974
7018

PLASTIC

0120 0714 0734 0740 1324 1364 1370 3186 3314 3748
3776 4324 4327 4366 5601 5605 5608 5652 6289 6290
6467 6469 6969 6974 6975 7027

REINFORCED CONCRETE

2592 3185 4339 4340

REVOLUTION

0089 0127 1366 1989 3773 3774 3776 4341 4342 5008
5010 5013 6313 7011 7023

SHALLOW

0736 1360 1990 2591 4345 4353 5007 5637 7003 7010
7031

SPHERICAL

0089 0123 0714 0760 1319 1363 1367 1373 2591 2713
3154 3769 4503 5004 5608 5644 5701 5830 5833 6289
6317 7075 7076

STIFFENED

0743 5011 5404 5640 5645 6467 6469

TOROIDAL

2582 3184 4327 4998 5670 7004

TORSION

1317 4324

SEE ALSO--- BUCKLING, SHELLS -- ENERGY METHODS --
VIBRATION, SHELLS

SHIP--- *SEE* MARINE ENGINEERING

SHOCK

5515

ABSORBERS

2060

THERMAL

2771 2824 7493 7494

SEE ALSO--- IMPACT

SHOCK TUBES

0475 0528 0990 0991 1082 1652 1653 1654 1706 2278
2280 2391 2836 2837 2838 2839 2840 2920 2954 3460
3466 3561 3946 4006 4007 4127 4139 4597 4643 4692
4693 4757 5280 5343 5355 5984 5985 5986 5987 5988
6633 6634 6750 6754 7346 7347 7345 7466

SHOCK WAVES IN FLUIDS

0299 0312 0314 0315 0316 0317 0319 0579 0900 0909
0911 0913 0915 0916 0917 0918 0920 0926 1187 1188
1426 1581 1582 1586 1587 1588 1589 2183 2187 2190
2191 2193 2194 2195 2196 2197 2341 2770 2773 2775
2776 2778 2779 2990 2993 2994 3378 3386 3389 3943
3945 4186 4188 4594 4599 4600 4601 4604 4610 4613
4649 4842 4846 4850 5193 5206 5207 5316 5317 5908
5912 5913 6039 6040 6549 6558 6559 6560 6561 6562
6562 6753 7218 7241 7242 7243 7253 7526 7529

DETACHED
0311 3384

INTERACTION
0370 0906 2934 3562 4603 5382 5886 5909 5911 6557
6563 6564 7240

MEASUREMENT
1130 1585 1645 1652 1654 2780 4602 6103

NORMAL

1741 2777 2787 3385 4598 5384 6103 6104 6755 6756

OBLIQUE

0313 0370 1584 2192 3473 3564 4187 4596

SHOCK WAVES IN SOLIDS

0090 0581 1321 1426 4408 4415 4844 4845 4856 5754

6390 6392 7104 7105

SIEVING

5464

SEE ALSO--- FILTRATION

SIMILITUDE--- *SEE* DIMENSIONAL ANALYSIS

SIMULATION

0561 0985 0990 2438 3585 7520

ANALOG

0026 3081 3563 3672 4013

SIZE REDUCTION--- *SEE* CRUSHING

SKIN FRICTION--- *SEE* BOUNDARY LAYER, SKIN FRICTION

SLIP FLOW--- *SEE* RAREFIED GASES

SLOPE STABILITY--- *SEE* SOIL MECHANICS, SLOPE STABILITY

SLOSHING--- *SEE* LIQUID SLOSHING

SNOW

3624 4542

SOIL MECHANICS

0812 2062 3831 7108

BEARING CAPACITY

0019 0209 0210 1439 1440 2663 3266 5752 6403 7114

CONSOLIDATION

0203 0204 0807 1436 2063 3258 3259 3830 4414 5753

7109 7113 7115

DYNAMICS

0199 0810 1191 1341 1433 2066 2067 2068 4415 5077
5515 6167 6168 6398

LANDSLIDES

1892

MOISTURE

0591 1435 6177 7557

MULTILAYER

0206

PERMEABILITY

17

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

SUBJECT INDEX TO APPLIED MECHANICS REVIEWS, VOL 17, 1964

- SOIL MECHANICS *CONTINUED***
0201 2461 3025
- PLASTICITY**
4542
- PROPERTIES**
0806 2064 2664 3257 3260 3265 5076
- RETAINING WALLS**
0867 3261 4542 5082 6401
- SETTLEMENTS**
1434 7113
- SLOPE, STABILITY**
0211 0811 1432 1968 3267 3833 3834 5074 5080 5758
6400 7111
- TESTING METHODS**
0806 0813 1341 2665 3269 5078 5759 7110 7115 7116
- *SEE ALSO*--- DAMS -- EARTH PRESSURE -- HEAT TRANSFER, SOIL -- HYDROLOGY -- PERMAFROST -- PILES -- RAILWAY CONSTRUCTION -- SAND -- SEDIMENTATION -- SEEPAGE -- TUNNELS -- WELLS
- SOLAR**
4870 6046 6679 6684
- ENERGY**
0453 0454 0488 0603 0998 1040 2896 3512 4009 4064
4083 4704 4742 6849 7579
- SOLDERING**-- *SEE* BRAZING AND SOLDERING
- SONIC ROOM**
0364 0384 1810 3387 3620 3623 5463 6156 6157 6819
6823 7539 7540
- SOOT FORMATION**
7417
- SOUND**
2237 2446 3028 3664 7539
- ABSORPTION**
4195 5455
- ATTENUATION**
2044 2451 2452 3001 3002 3003 4197 4852 4853 6161
- DIFFRACTION**
0586 2447 2449 3000 3618 4200 5457 5727 7543
- EXPERIMENTAL**
0588 1810 1812 3622 4195 4200 4851 6161 6162 6822
7546 7547
- FIELDS**
0588 1806 2997 4198 5450 5453 6164 6818 7546
- GENERATION**
2453 2995 5454 6166 6822 7544
- PROPAGATION**
3387 5460 5742 6820 6821 6823 7545
- RADIATION**
1802 1809 2996 3004 4196 4197 5073 5449 5451 6818
6819 7537 7542
- REFLECTION**
4655 4851 6159
- REVERBERATION**
2450 5459 6162 6825
- SCATTERING**
4198 4199 5456 5457 6158 6160
- TRANSMISSION**
- SOUND *CONTINUED***
0587 3005 3622 4655 5449 5458 6163 6164 7545
- VELOCITY**
1811 1812 2998 4415 6165
- WAVES**
1808 1811 2447 2999 3000 3004 3618 3664 4855 5073
5456 5460 6157 6820 6821 7299
- *SEE ALSO*--- COMBUSTION, ACOUSTICS -- INTERFACE PHENOMENA -- NOISE -- SONIC BOOM -- TURBULENCE -- ULTRA- AND INFRASONICS
- SPACE NAVIGATION AND GUIDANCE**
0565 1179 1260 2427 4913 6215 6798
- DIFFERENTIAL CORRECTION**
3611 4170 6138 6798 7508
- GUIDANCE OPTIMIZATION**
0029 1905
- GUIDANCE THEORY**
0053 3600
- MIDCOURSE GUIDANCE**
0550 5434 7519
- TERMINAL GUIDANCE**
1905 2426 5426 7515
- *SEE ALSO*--- CELESTIAL MECHANICS -- LIQUID SLOSHING -- ORBIT MECHANICS -- SPACE VEHICLE STABILIZATION
- SPACE POWER**
0483 0490 0492 0493 0495 0496 0497 6071 7523
- CHEMICAL**
1707 1708
- ELECTRIC**
0486 0489 0491 0494 0498 1711 7423
- NUCLEAR**
0484 0485 1709 1710 7420
- PERFORMANCE**
0481 1707 1708
- SOLAR**
0482 0487 0488 4083 4106
- *SEE ALSO*--- SPACE NAVIGATION AND GUIDANCE
- SPACE PROPULSION**
6071 6612 7509
- ASCENT**
1789
- CHEMICAL**
4100 4101 4409 7422
- CONTINUOUS**
2931 4165 4822 5430 6807
- DESCENT**
1186
- ELECTRIC**
1096 1711 2928 2929 2930 2932 4773 7421 7422 7423
- IMPULSIVE**
3607 3610 4169 4824 5429 6144 6803
- NUCLEAR**
2927 6137 7420
- OPTIMIZATION**
3591 4167 4824 5429 6144 7516

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

SUBJECT INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

33

SPACE PROPULSION *CONTINUED*

PERFORMANCE
1709 2927 4100 7418 7420

PROGRAMMING
0480 4103

VARIABLE MASS DYNAMICS
5446 6808

*SEE ALSO--- ORBIT MECHANICS -- SPACE NAVIGATION
AND GUIDANCE

SPACE VEHICLE DESIGN

0812 1041 1661 2127 2717 2718 3256 3281 3508 3510
3914 4703 5298 5337 5339 5484 5485 5832 5836 6212
6414 6667 6680 6685 7382

LANDING DEVICES
0572 2433 3266

OUTER SHELL:
1184 2970 4838

STRUCTURAL DESIGN
5721 6412 7460

STRUCTURAL MATERIALS
3881 4492 4495

STRUCTURAL OPTIMIZATION
2126 7173

SPACE VEHICLE STABILIZATION

0047 0051 0052 0053 0054 0057 0666 0670 0671 0672
0673 0674 1287 1288 1291 1292 1293 1791 1918 1936
1937 1938 1939 1940 2254 2407 2552 2553 3117
4286 5437 5443 5574 6143 6245 6797 6927 7510

ALTITUDE-STABILIZATION
0569 1784 1794 1795 2432 2986 4180 6811 7520

GRAVITATIONAL
5427

GYROSCOPIC
4183

MAGNETIC
4180

ORBIT STABILIZATION
0480 1709 1783 4103 7422

SOLAR PRESSURE
1790

STABILITY THEORY
0369 0569

*SEE ALSO--- ORBIT MECHANICS -- SPACE NAVIGATION
AND GUIDANCE -- SPACE POWER

SPECIAL MATHEMATICAL FUNCTIONS
0014 0646 1881 1882 3069 3071 3660 3670 4912 5499
5514 6203 6878 6882 6883 6884 6888 6889 6892

SPECIFIC HEAT--- *SEE* THERMAL PROPERTIES, SPECIFIC
HEAT

SPECTROSCOPY
0520 1130 2945 6627 6751 7320 7465

SPILLWAYS--- *SEE* HYDRAULIC STRUCTURES, SPILLWAYS

SPINNING--- *SEE* AIRPLANE, SPIN RECOVERY

SPOILERS--- *SEE* WINGS, SPOILERS

SPRAYS
1200 2459 6171 6172 7218 7553

SPRINGS
0091 3161 3741 4342 4516 5142 5838 6223 6276

NONLINEAR

*SEE ALSO---- BUCKLING, SPRINGS -- VIBRATION,
SPRINGS

STABILITY--- *SEE* UNDER MODIFIER

STABILITY THEORY
0361 0655 1239 1649 1783 2820 3418 3667 5527

STALLING
2841 3415

AIRFOILS
4637

BLADES
7311

WINGS
2282

STATICALLY INDETERMINATE STRUCTURES--- *SEE*
STRUCTURES, STATICALLY INDETERMINATE

STATISTICAL DESIGN
1822 2494 4244 5135 7173 7176

STATISTICAL MECHANICS
0390 0396 0513 0520 0996 1007 1102 2365 2945 5993
5995

STATISTICAL THEORY
0638 1242 1243 1244 1245 1251 1867 1878 2500 2508
4245 4248 4901 5511 6878 6885 6890

*SEE ALSO--- DATA ANALYSIS -- ERROR THEORY --
INFORMATION THEORY -- OPERATIONS RESEARCH --
STATISTICAL DESIGN

STATISTICAL THERMODYNAMICS--- *SEE* THERMODYNAMICS,
STATISTICAL

STEAM
1009 2341 3472 3474 3477 3479 3481 4707 4708 5292
6641 7206 7362

TABLES
4698 5291 5997 6642

STEAM POWER PLANTS--- *SEE* POWER PLANTS, STEAM

STEEL
0841 3284 3749 3872 5090 5612 6421

ALLOY
0611 1329 3276 3874 3878 4317 4484 4485

CARBON
0096 0099 0246 0705 0818 1448 1475 1959 3743 3746
3839 3841 3875 4481 4483 4485 4488 4967 4968 4976
4980 5120 5121 5122 5123 5602 5603 5803 6405 6982
6983

STAINLESS
0243 4491 5806 6956

ULTRA HIGH STRENGTH
3738 4486 7168

STILLING BASIN--- *SEE* SURGE TANKS

STOL
0054 0057 0360 0666 0670 0671 0672 0673 0674 1159
1167 1172 1287 1288 1291 1292 1293 1644 1918 1927
1936 1937 1938 1939 1940 2552 2553 2814 3102 3117
3584 3585 3586 3587 3589 4286 4287 4944 5420 5422
5574 6246 6247 6251 6927 7284 7340

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

SUBJECT INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

- *SEE ALSO---- GROUND EFFECT MACHINES -- VTOL
- STRAIN AND STRESS**
- 0258 0868 0869 1463 1464 1472 2092 2096 2690 2720
 - 3293 3294 3296 3326 3655 3857 3858 3902 4240 4257
 - 4258 4259 4456 4457 4478 5102 5109 5784 5785 6429
 - 6638 7140 7152 7153 7155 7198
- CONTACT**
- 0252 1322 1514 3171 7187
- FINITE DEFORMATION**
- 0232 0233 2522 5602 5603 6965 6973 6983
- RESIDUAL**
- 0083 1329 1331 1465 1466 2672 3155 3161 3166 3169
 - 3282 3749 3750 3859 4322 4426 4432 4447 4466 4536
 - 5086 5105 5107 5148 5763 6286 7120 7151
- STRAIN GAGES**
- 4319 5757 5763
- ELECTRIC**
- 0233 1461 1462 2094 2687 2688 3199 3268 3295 3296
 - 4455 4456 4458 4459 4462 5100 5101 5103 5723 6430
 - 7149
- OPTICAL**
- 0232 2689 3857
- STRAIN HARDENING**
- 0097 0258 0701 0703 0818 1319 1329 1957 1961 1962
 - 1970 1971 2568 2684 3159 3169 3752 3877 4328 4329
 - 4421 4488 5596 5602 5607 6282 6294 6295 6298 6406
 - 6979
- STREAMS**
- 1545 2735 3020
- FLOOD FLOW**
- 0082 0269 0270 0883 1822 1823 1824 3352
- NATURAL**
- 0272 0277 0809 4215 6832 6844
- STRESS ANALYSIS--- *SEE* UNDER MODIFIER**
- STRESS CONCENTRATION FACTORS**
- 0066 0067 0218 0219 0220 0221 0234 0690 0691 0829
 - 1350 1467 1966 1979 2091 2563 2963 3150 3197 3287
 - 3326 3726 3757 3902 4306 4320 4324 4957 4958 4959
 - 5103 5583 5587 5780 6256 6266 6269 6270 6412 6945
 - 6946 7187 7430
- STRESS CORROSION**
- 1454 1476 6422
- STRESS RELAXATION**
- 0083 0086 0091 1959 2144 3161 3166 3741 3862 4313
 - 4320 4498 4973 5788 5810 7160
- *SEE ALSO---- CREEP
- STRESS, RESIDUAL--- *SEE* STRAIN AND STRESS, RESIDUAL**
- STRINGS**
- 0158 1972
- *SEE ALSO---- VIBRATION, STRINGS AND CABLES
- STRUCTURES**
- 0629 0849 1503 1863 1893 2506 2514 3055 3057 3076
 - 3078 3656 3893 5127 5515 6877
- AIRPLANE**
- 0239 0240 0855 1324 1497 1510 2124 2237 3852 3894
 - 5522 6474 6877 7140 7280
- ANALYSIS**
- 0250 0848 0859 0860 0861 0862 0863 0864 0866 0869
 - 0871 1342 1349 1371 1488 1490 1951 2110 2111 2114
- STRUCTURES *CONTINUED***
- 2115 2116 2122 2697 2698 2699 2700 2701 2703 2704
 - 2708 2709 2710 2711 3176 3313 3314 3315 3320 3321
 - 3895 3897 3898 3913 4325 4501 4502 4503 4505 4508
 - 5128 5134 5135 5136 5139 6459 6461 6470 6881 7172
 - 7176 7179 7180 7184
- BUILDINGS**
- 2117 2118 2121 3322 3853 3899 5704 5826 6463 6470
 - 6471 7175 7181
- CREEP**
- 0081 0702 1504 1958 1962 3155 3157 3159 3161 4506
 - 5595 5596 6283 6451 6956 6957 6959 6960
- CUTOUTS**
- 2091 3902 4509 4514 6460 6492
- LIMIT DESIGN**
- 1324 1480 2670 2696 2697 2702 3313 3314 4325 4501
 - 5129 5138 5820 6289 6291 6448 6449 6450 6969 6971
 - 6972 7177 7182
- LOADS**
- 3853 3900 4325 4570 6462
- MINIMUM WEIGHT DESIGN**
- 0852 1488 4504 7173
- MODELS**
- 0230 5097 5098 5140 5778 6424 6426 6428 6858
- OPENINGS, REINFORCED**
- 6289
- OPTIMUM DESIGN**
- 1510 2712 5812 6290 6291 6474 7174
- PRESTRESSED**
- 0856 1494 2112 2680
- ROOFS**
- 1491 2121
- SHIP**
- 0230 2677 3284 6472 6473 6858 6860
- SMOKE STACKS**
- 7175
- SPACE VEHICLE**
- 0181 2127 3281 7173
- STATICALLY INDETERMINATE**
- 0710 0852 1480 1893 2109 3316 3323 4325 4500 5128
 - 5519 5811 6451 6452 6464
- TESTING**
- 0251 3865 5137 5140 6427
- THERMAL STRESSES**
- 5835
- WELDED**
- 3166 3846 7014
- *SEE ALSO---- ARCHES AND VAULTS -- BRIDGES -- BUCKLING, STRUCTURES -- CONCRETE AND MASONRY -- DAMS -- DOCKS -- DYNAMICS, STRUCTURES -- FATIGUE, STRUCTURES -- FOUNDATIONS -- FRAMES AND BENTS -- GRILLAGES -- HIGHWAY AND RUNWAY CONSTRUCTION -- IMPACT, STRUCTURES -- JOINTS, WELDED -- PIERS -- PILES -- PRESTRESSED CONCRETE -- RAILWAY CONSTRUCTION -- REINFORCED CONCRETE -- SANDWICH CONSTRUCTION -- TOWERS -- TRUSSES -- TUNNELS -- VIBRATION, STRUCTURES -- WALLS -- WOOD STRUCTURES
- STRUTS--- *SEE* COLUMNS**
- SUBMARINES**
- 2480 6467

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

SUBJECT INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

35

SUBMERGED BODIES--- *SEE* HYDRAULICS, DYNAMICS OF LIQUIDS

SUCTION--- *SEE* BOUNDARY LAYER, CONTROL

SURFACE COATING
1474 1482 2098 4492 5124

SURFACE ROUGHNESS--- *SEE* FRICTION

SURFACE TENSION
0264 1537 2100 2730 2739

SURGE TANKS
2734 3080 4551 4656 4657 5164 5264

SUSPENSIONS
0456 0457 2457 3009 5469 6829 7549 7550 7551 7552

*SEE ALSO---- AEROSOLS -- CENTRIFUGATION -- DISPERSION -- FLOTATION

SWEAT COOLING--- *SEE* MASS TRANSFER, SWEAT COOLING

SYSTEMS ENGINEERING--- *SEE* AUTOMATIC CONTROL, PROCESSES

T

TABLES
0201 5514 6203 6875 6888 6892

TAKEOFF--- *SEE* LANDING AND TAKEOFF

TEMPERATURE MEASUREMENT

0403 0404 0406 0461 1073 1076 1077 1279 1658 1659
1660 2295 2303 2304 2846 2854 2855 2911 3489 3490
3491 3534 3879 4023 4024 4713 4714 4715 4716 4718
4719 5272 5273 5294 5295 5999 6644 6645 7321 7323
7324 7325 7326 7327 7328 7337 7364

*SEE ALSO---- FLAME, TEMPERATURE MEASUREMENT -- THERMOCOUPLES

TEMPERATURE RECOVERY
3398

TENSOR METHODS--- *SEE* VECTOR AND TENSOR METHODS

TEXTILES
1478 2105 2692 5490 5808

THERMAL RUCKLING--- *SEE* BUCKLING, THERMAL

THERMAL PROPERTIES

0433 1074 2097 2351 2356 2849 2893 3879 4008 4082
5340 5341 6003 6011 6038 6044 6701 7346 7395

CONDUCTIVITY

0395 0408 0412 1003 1004 1078 1481 1662 1663 2298
2838 2850 3467 3474 3475 3479 3484 4017 4122 4123
4759 5296 6090 7358 7366 7367 7500 7501 7554

EMISSIVITY

0405 1481 3516 5392 7363

SPECIFIC HEAT

0389 1661 3476 3477 3480 3483 3486 4021 4025 5292
6641

THERMAL SHOCK--- *SEE* SHOCK, THERMAL

THERMOCOUPLES
0404 3879 4718 5294 6644

THERMODYNAMICS

0316 0995 1001 2283 2847 3371 4010 4013 4696 4697
4701 4705 5285 5286 5287 5288 5992 6636 6637 6877
7351 7352 7354 7356

THERMODYNAMICS *CONTINUED*

CYCLES

0389 0392 0393 0394 1000 1002 2292 2924 3469 3955
4014 4700 4704 5284 5289 6639 6643 7351 7352 7355

IRREVERSIBLE

0261 2286 2845 3923 4012 4699 5286 6499 6500 6967
7353

MEASUREMENTS

0407 0408 1657 2846 3455 3457 3478 3480 3485 4021
7351

PROPERTIES

0400 0401 0402 1002 1008 1009 1010 2287 2288 2289
2293 2294 2848 2849 2852 2853 3460 3470 3486 3488
4016 4018 4019 4020 4709 4710 4711 5483 5980 5991
5997 5998 6640 6718 6853 7360 7365 7395 7461 7532
7563

STATISTICAL

0390 0396 0996 3944 4022 5993 5995 5996 6559 6570
7245 7357

*SEE ALSO---- ABSORPTION -- AEROTHERMOCHEMISTRY -- AEROTHERMODYNAMICS -- BOILERS -- CALORIMETER -- CHEMICAL THERMODYNAMICS -- COMBUSTION, THERMODYNAMICS -- COMPRESSORS -- DIFFUSION, THERMAL -- DIRECT ENERGY CONVERSION -- DISSOCIATION -- ENGINES -- EQUATIONS OF STATE -- FLAME -- HEAT TRANSFER -- KINETIC THEORY -- MIXTURES -- PHASE CHANGES -- POWER PLANTS -- REFRIGERATION, AIRCONDITIONING -- THERMAL PROPERTIES -- TURBINES AND TURBOMACHINERY -- VORTEX TUBE

THERMOELASTICITY

1457 1459 2411 4411 4412 6877

ANISOTROPIC AND NONHOMOGENEOUS MEDIA
1151 1765 2412 2557 6775 7481 7495

BEAMS

0088 1764 2413

GENERAL THEORY, THREE DIMENSIONAL

1763 1765 4148 4154 4802 6121 6122 6774 6776 6779
6780 7480 7483 7487

GENERAL THEORY, TWO DIMENSIONAL

1767 2414 4148 4154 4155 4158 6775 6778

PLATES

0534 0536 1146 1149 1150 1153 1762 1769 2419 2618
2962 4148 4149 4151 4156 4160 4803 4806 5403 5416
6120 6124 6771 6773 6777 6781 6784 6786 7478 7482

SANDWICH CONSTRUCTION

1156 4157

SHAFTS

1768 4153

SHELLS

0535 1144 1147 1148 1152 1155 2961 4152 4621 5404
5405 5409 5638 6125 6771 7489

STRUCTURES

0537 0538 1153 1154 1770 2418 2964 4811 6130 6771
6772 7479 7502

TRANSIENT EFFECTS

0539 0543 0546 2965 2966 4150 4804 4805 5406 5407
5408 6123 6783 6784 6785 7477 7485 7488 7490 7493
7494

TUBES

3751 7486

THERMOELECTRICITY

0491 1657 2285 2332 3487 4011 5290 6849

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

SUBJECT INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

- *SEE ALSO--- THERMOCOUPLES
- THERMOPLASTICITY**
0064 0258 0540 2415 4807 5410 5411 5412 6956
- TIDES**
1196 1834 3031 6509 6850 7296
- TIMBER CONNECTIONS--- *SEE* JOINTS**
- TIRES**
1163
- TITANIUM AND TITANIUM ALLOYS**
0242 0244 0805 3877 4315 4432 4486
- TOOLS**
5520
- HARDNESS**
0826 0828
- LIFE**
0828 2074 2075 2076 2667 3278 3841 4425 5085 5118
5488 6409 7119
- STRENGTH**
2074 3842 5762
- *SEE ALSO--- VIBRATION, TOOLS
- TORSION**
0060
- BEAMS**
0103 0107 0706 0716 1325 1489 1954 1955 3144 3158
3759 3762 4322 4985 4995 5595 5607 5621 5624 6948
6949 6957 6970
- PLASTIC**
0246 0716 1325 1337 1970 4322 5584 5607 5622 6947
6962 6963 6970 6976
- PLATES**
0136 0730 1468 5630 7033
- SHAFTS**
0068 0686 0892 0706 1308 1317 1336 1337 1351 1953
1954 1955 1974 2564 3143 3726 4960 4961 6267 6268
6269 6987
- SHELLS**
0129 0183 1317 3770 5006
- STRUCTURES**
1507 4252
- TORQUE CONVERTER**
0280 3358 3990
- TOUGHNESS**
0243 0244 2080 3878 7165
- TOWERS**
2711 4508
- TOWING TANKS--- *SEE* MARINE ENGINEERING, SHIP MODEL EXPERIMENTS**
- TRANSDUCERS**
0800 2059 2645 2649 4856 5577 6250 6393 6429 7089
7546
- TRANSFORMS--- *SEE* OPERATIONAL METHODS**
- TRANSPIRATION COOLING--- *SEE* MASS TRANSFER, SWEAT COOLING**
- TUBES--- *SEE* PIPES AND TUBES**
- TRANSPORT OF DUST--- *SEE* DUST, TRANSPORT**
- TRANSPORT PROPERTIES**
0303 0996 1005 1655 1833 3032 4013 4869 4872 5333
6638 6640
- DIFFUSION**
0290 1108 2856 2946 3555 4116 6502 6717 7450
- VISCOSITY**
0395 0398 0399 0402 1004 3471 3472 3475 3482 5287
5293 7362
- *SEE ALSO--- KINETIC THEORY -- THERMAL PROPERTIES
- TRUSSES**
0850 0851 1498 1507 3323 7172 7183
- TUNNELS**
3906 7219
- TURBINES AND TURBOMACHINERY**
0777 0972 0974 0975 0978 0998 3978 3981 3983 4450
4666 4667 4671 4672 4811 4818 4938 5967 6615 6619
7310 7311 7312 7313 7315
- BLADES**
0371 0372 1992 2258 2259 3432 3434 3436 4146 4565
4664 4666 5085 5167 5647 6617
- GAS**
0445 0977 0999 1002 1486 1635 1856 2161 2258 2360
2924 2925 3432 3438 3528 3980 4098 4378 4665 4700
4940 5270 5289 5349 6615 6707 7306 7310 7401 7416
- HYDRAULIC**
1633 2259 2734 3433 3437 4664 7305
- NOZZLES**
2926 5268
- ROTORS**
3979 3983 4667 7310 7313 7314 7492
- STEAM**
0164 0392 2678 2851 5299 6070 7310
- *SEE ALSO--- HEAT TRANSFER, BLADES, TURBOMACHINERY -- VIBRATION, BLADES
- TURBOJETS--- *SEE* JET ENGINES, TURBOJET**
- TURBULENCE**
1209 1828 1833 3031 3934 4220 5860 5948 6508 6874
1205 1621 1622 2233 2812
- FREE TURBULENCE**
0348 0350 0351 1832 1889 2233 7290 7291 7292
- HOMOGENEOUS**
0949 3408 3542 6083 6730
- ISOTROPIC**
0344 2384 3541 7436
- MEASUREMENTS**
0345 0346 0347 0352 0356 0606 0950 0955 1210 1211
2216 2747 2808 2811 4635 4800 5238 5950 6590 6596
6848 6852 7205 7218 7550
- MIXING LENGTH THEORY**
1620 2748 2812 3934 3958 4579 5155 5240
- STATISTICAL THEORY**
0344 0953 1623 2228 2229 2809 2810 4648 5236 5237
5238 6591
- TRANSPORT**
0290 0291 0355 0954 2236 2457 2810 3012 3409 4869
5241 5950 6537 6595 7267 7549
- WALL TURBULENCE**

Review Numbers:	1-627	.628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

SUBJECT INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

37

TURBULENCE. *CONTINUED*

0345 0349 0876 0928 0950 1628 2811 4620 4635 5224
5931 5949 6590 6592 6595

*SEE ALSO--- BOUNDARY LAYER, TRANSITION -- FLAME,
TURBULENT -- HEAT TRANSFER, TURBULENT --
METEOROLOGY, TURBULENCE -- MIXING -- WAKES

TURNING
2667 2672 6409 7119

TWISTING OF SHAFTS--- *SEE* TORSION, SHAFTS

U

ULTRA- AND INFRASONICS

0083 0237 0844 0846 0847 1471 1809 1912 2452 2669
3005 3312 3621 3867 3871 4201 4430 5458 5461 5462
5797 5799 5800 5802 6439 6440 6826 6827 7166

UNITS AND DIMENSIONS
6875 6876

UNSTEADY FLOW
0326 0961 0964 0965 0989 2241 2822 2829 3379 4648
5254 5273 5278 5923 5924 5925 6604 6633 6634 7239
7257 7333 7348

INCOMPRESSIBLE
0283 0288 0293 1569 2144 2257 2269 2717 2755 2816
3920 3922 3997 3998 3999 4570 4572 4663 4686 5873
5879 5952 6524 6528 6568 6616 7277

SUBSONIC
2172

SUPersonic
0963 0986 4695 5984 5985 5986 5987 5988 7346

TRANSONIC
5279 6598

*SEE ALSO--- OSCILLATIONS IN FLUID

UPWASH AND DOWNWASH--- *SEE* WINGS, UPWASH AND
DOWNWASH

V

VACUUM TECHNOLOGY

0320 0391 1081 1229 2828 3915 4526 4683 4703 7359

VALVES AND GATES

0368 0878 2162 2826 2828 3341 3345 3931 4555 5266
7208

VAPORIZATION--- *SEE* MASS TRANSFER, EVAPORATION

VARIATIONAL METHODS

0010 0168 0635 0636 1239 1241 1242 1874 1875 2510
2511 3063 3107 4648 4907 4908 4909 6198 6201 6890

AERODYNAMICS
0634

ELASTICITY
0129 0797 0798 1232 1392

FLUID DYNAMICS
1240 1594 4568 6529

PLASTICITY
1969 4327 5609 6291 6962 6963 6965

SOLID DYNAMICS
0562 3659 6369

VARIATIONAL METHODS *CONTINUED*

VISCOELASTICITY
0074 1316 1960 3740

VAULTS--- *SEE* ARCHES AND VAULTS

VECTOR AND TENSOR METHODS
0610 0631 1330 1861 2507 2521 3657 3658 3659 4238
4900 5673 6198 6877

*SEE ALSO--- MATRIX METHODS

VEHICLES
3420

AUTOMOTIVE
0256

LAND
3675 3897 4539 4920 6216

MOTION AND CONTROL
4920

SEA
6530

STABILITY
0361 2281 2282 3675 4694

*SEE ALSO--- AIRPLANE -- IMPACT, VEHICLES --
MARINE ENGINEERING -- SPACE VEHICLES --
SUBMARINES -- TIRES -- VIBRATION, VEHICLES

VELOCITY MEASUREMENT

0267 0385 0979 0981 0982 0983 1211 1648 3992 3995
4001 4676 4678 4680 4681 4684 4692 4717 5975 6534
7348 7550

VIBRATION

0176 1392 1410 1864 2012 2013 2038 2046 2505 2620
2623 2724 3059 3656 3795 3997 3998 3999 4225 5515
5519 5520 5673 5677 6197 7057

ABSORPTION
2060

ABSORPTION AND DAMPING
0159 0179 0790 0791 0792 0793 0794 1406 1407 2016
2040 2041 2042 2043 2044 2626 2632 2646 2647 3216
3816 4384 4388 4917 5041 5057 5121 5529 5713 5714
5716 5717 5726 7065 7090

AIRPLANES

0178 0180 2036 2125 3800 4385 4386 4410 4591 5522
5705 7141 7471 7472 7475

ANISOTROPIC
0772 1400 3230 3231

BALANCING
0165 2021 4261 6214

BEAMS, ELASTIC FOUNDATIONS
0773 1397 3755

BEAMS, FLEXURAL
0155 0156 0162 0163 0165 0168 0175 0187 0196 0776
0791 0794 1295 2014 2018 2019 2626 2627 2628 3222
3223 3225 3228 3243 3828 3889 4372 4373 4983 5043
5683 5684 5713 5724 5725 5804 6360 6363 6364 6991
7063 7065 7066 7085

BEAMS, LONGITUDINAL
0187 0794 1405 3224 4374 5041 5461 5685 5690 5804
6374

BEAMS, TORSIONAL
0167 1405 1413 2633 3232 5042 5689 5690 5700 6367

BLADES

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

SUBJECT INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

VIBRATION *CONTINUED*

0164 2026 2030 2061 2268 3449 3812 4378 4379 4380
4387 4389 4565 5051 5052 5710 5712 5723

BRIDGES
7083

ENGINES
0256 2630 5711

FINITE AMPLITUDE
5054 5701

FLUID
1537 1802 2639 4919 5170 5527 6117 6503 6538 7202

FOUNDATIONS
1392 1437 3821 5707 5708 5709 7058

FREQUENCIES, BEAMS
0155 0162 0163

FREQUENCIES, SHELLS AND PLATES
0171 0172 0174 0782 1398 2640 3238 7070

GEARS
7068

IMPEDANCE TECHNIQUES
1403

IMPULSIVE LOADING
0196 0804

INFINITE DEGREE OF FREEDOM SYSTEM
5717 6355 7106

ISOLATION
1423 1424 2015 2622 2648 3241 4390

MACHINES
0789 2630 5058 5708 5709 6373 7067 7072

MAGNETOSTRICTION
205/ 2650 7089 7106

MEASUREMENTS AND INSTRUMENTATION
0182 0183 2645 2649 2650 3244 3463 4391 4413 5710
5715 5722 5723 5726 6376 7087 7089 7547

MEMBRANE
0774 3221 3807 5682 6362 7069

MISSILES
0177 7088

MODES
0156 0182 3800 7072

MOVING LOADS
2657 3248 5040

MULTIPLE DEGREE OF FREEDOM SYSTEM
0147 0181 0769 0770 0789 0790 1241 1390 1394 1406
1408 1424 2042 3226 3796 3799 3818 5038 5059 5674
6353 6355 6356 6358 6361 6375 7059 7060 7061 7072

NONLINEAR
0772 0781 1271 1393 1394 1649 2624 2625 2824 3218
3219 3220 3221 3233 3796 3801 3803 3804 3811 4371
5043 5055 5675 5678 5679 5692 5719 5720 6354 6355
7057 7061 7062 7086 7103

APRIL FEATURE ARTICLE

NONLINEAR, COMPLEX SYSTEMS
0789 2035 6357 7060

NONLINEAR, FORCED
0157 0181 0678 0771 1391 1409 2015 2622 3797 3802
3805 3806 4370 5036 5037 5038 5039 5674 5676

NONLINEAR, FREE

VIBRATION *CONTINUED*

0173 0770 0793 1943 2017 2646 3217 3798 3817 4373
4375

ORTHOTROPIC
0781 1754 3813 4383 5050 5695

PLATES
0170 0171 0172 0173 0183 0778 0780 0781 0782 1398
1399 1755 2014 2028 2029 2045 2056 2584 2635 2636
2637 2638 2656 3218 3219 3233 3234 3235 3236 3249
3786 3811 3829 4335 4361 4376 4377 5046 5049 5050
5403 5632 5692 5693 5696 5697 5719 5741 5747 6369
7070 7071

PLATES ON ELASTIC FOUNDATIONS
5067 5694

PLATES, SANDWICH
5714

PLATES, STIFFENED
0779 2031

PROPELLERS
0784 6622 7476

RANDOM
0180 1408 1409 2528 2529 2530 2547 2548 2549 2550
3093 3098 3113 3242 3695 3817 4288 4395 5548 5549
5550 5556 5565 5719 6236 6903 6913 6919 6923 6924
7091 7103

RINGS
0160 0161 3808 3809 5682 7064

ROTATING DISKS
0173 2023 2024 2025 3812 3829 4375 5461

SELF EXCITED
1261 2650 2826 3123 3428 3691 3720 3975 5058 5547
6770 7475

SHAFTS
0165 1856 2020 2022 2039 2629 2630 2631 2632 2634
3049 3227 3229 3230 3231 3232 5045 5048 5686 5687
5688 5689 5690 5691 6365 6366 6367 6368

SHELLS
0059 0174 0772 2621 2637 3253 4395 5695 5698 5699
5700 5703 6115 6118 6370 6770 7073 7078

SHELLS, CYLINDRICAL
0169 0783 0785 0802 1138 1139 1400 1760 1802 2027
2033 3801 3813 3814 3815 3826 4364 4383 5044 5053
5055 5070 5072 5699 5702 6371 7074 7077 7079 7080
7081

SHELLS, SANDWICH
2635 4382

SHELLS, SPHERICAL
0786 1400 2032 2655 2659 3237 5054 7075 7076

SHELLS, STIFFENED
7079

SHIP HULLS
1404 2027 2037 2643 5786 6372 6860 7066 7084 7085
7086

SINGLE DEGREE OF FREEDOM SYSTEM
0157 0179 2015 2531 3241 3619 3802 3806 4370 4390
5039 5058 5529 5532 5675 5676 5677 5678 5679 5680
5720 6217 6224 6359

SPRINGS
2644

STABILITY
0157 0655 1809 2551 3049 4273 4370 5037 5045 5048
5059 5527 5680 5686 5691 5724 5725 6217 6218 6219

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

SUBJECT INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

39

VIBRATION *CONTINUED*

6223 7082

STRINGS AND CABLES

0158 0159 0768 1395 1396 4515 4981 5040 5534 5681

STRUCTURES

0180 0181 0787 0788 1401 1402 1407 1411 2014 2035
2454 2542 3222 3815 3816 4372 4381 4384 5455 5721
5739 5746 7082 7091

STRUCTURES, BRIDGES

7083

STRUCTURES, BUILDINGS

1412 2034 2641 3239 5056 5704 5707

TOOLS

6411

TORSIONAL

0167 0169 0771 0775 2036 2058 2633 3153 3244 3810
6411 6961 7058 7068 7202

TURBOMACHINERY

0164 0777 1856 2021 2026 2030 2061 3240 3812 4378
4379 4380 4387 4389 5047 5051 5052 5710 5712 5723

VEHICLES

0792 4920 5721 7087 7088

VISCOELASTIC

0169 0179 1321 2053 2644 3153 3238 3253 3651 5057
5741 6953 6961

SEE ALSO-- FLUTTER -- IMPACT -- SHOCK WAVES IN SOLIDS -- WAVES

VIRTUAL MASS

0283 0971 3036 3641 7223

VISCOELASTIC WAVE-- *SEE* WAVES, VISCOELASTIC

VISCOELASTICITY

0074 0076 0078 0088 2507 3155 3163 3164 3656 5600
6023 6279 6280 6782 6865 6961

DYNAMIC PROPERTIES

0200 0257 0261 0262 0696 0697 0698 0708 0874 1321
1530 1532 1533 1535 1536 1957 1965 2141 2142 2416
2967 3153 3156 3918 3919 3921 3923 3924 4311 4312
4319 4540 4543 4544 4545 4546 4965 5854 6278 6281
6500 6953 7117 7200

EXPERIMENTS

0079 0083 0086 0696 0698 1321 1965 2145 2146 3340
5157 5158 5854 6278 6281 6285 6286

FINITE DEFORMATIONS

0074 0079 0086 2141 2845 3156 4546 6281 6955

MECHANISM

0257 0260 0262 0697 0874 1314 1315 1316 1530 1533
1535 2142 3152 3153 3918 4311 4319 4540 4544 6278
6953 6955 7200

MOLECULAR THEORY

0260 0261 0708 1534 2145 4548 5157 5854

VISCOPLASTICITY

0059 0077 0078 0082 0095 0704 0875 1313 1475 1969
3154 4328 4966 5853 6388 7204

VISCOSITY

0261 1538 2830 3343 3456 4230 5855 7201

MEASUREMENTS

0402 2273 2493 3996 4689 5157 6503 7206

METER

0875 1529 2273 3997 3998 3999 4550 6503 7338

VORTEX

0288 0354 0890 0897 1620 1774 2158 2170 2179 2205
2270 2478 2750 2768 2831 2832 3927 3934 3978 3982
4219 4569 5874 5878 6619 7392 7393 7394

SHEETS

2257 4566 5877 6520 6540 6622

STREETS

3934 5977 6516 6538 6540

VORTEX TUBE

0289 1084 4015 6600 7356

VTOL

1159 1160 1167 1172 2841 3583 3585 3586 3587 3588
3589 4102 4817 4818 5421 5422 6599 6789 6790

SEE ALSO-- GROUND EFFECT MACHINES -- STOL

W

WAKES

3367 4593 5926 5928 6538 7258 7262

MEASUREMENTS

1646 2169 3042 4001 6543 6565 6583 6593 6831

THEORY

0329 1570 1571 2378 3369 3550 3968 4574 4616 5201
5257 6553 7222 7235

WALLS

1500 1631

WATER HAMMER

0368 0970 2732 2734 3974 3975 5174 5265 5266 6611
7300

WATER TUNNELS

2831 4691 5977

WATERWAYS-- *SEE* CANALS

WAVES

0184 4855 6393 6845

MAY FEATURE ARTICLE

-ANELASTIC

4401 4405 6386

ATMOSPHERIC

1206 2471 2473

ATTENUATION

0967 0969 1625 3429 4392 4400 4407 6285 6395

CAPILLARY

0966 3429 5960 7298

DIFFRACTION

0184 0586 2825 3000 3245 4394 5060 5727 5728 5732
6155 6158 6160 6378

DISPERSION

2448 3429 4650 5964

EFFECT ON FLOATING BODIES

0367 1548

EFFECT ON SHIPS

7102

EFFECT ON STRUCTURES

0367 1425 2454 7103 7211

ELASTIC

0093 0797 1201 1202 2453 3247 3819 3820 5066 5071
5729 5730 5731 5732 5743 5744 5748 6377 6394 7092

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

SUBJECT INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

WAVES *CONTINUED*
7095 7096 7101
MAY FEATURE ARTICLE

ELASTIC, BARS AND BEAMS
0186 0187 0798 0801 0803 1415 1418 2448 2653 3224
3243 3246 4374 4393 5733 6387

ELASTIC, PLATES AND SHELLS
0009 0193 0800 0802 1414 1632 2047 2049 2050 2059
2652 2655 2656 2659 3251 3826 4395 5061 5070 5735
5741 5747 6155 6378 6379 7093 7100

ELASTIC, SEMI-INFINITE MEDIUM
0191 0192 1417 3248 3821 4398 4400 5063 5064 5065
5737 5745 6380

ELASTOPLASTIC
0799 1427 2651 3252 3828 5068 6387 6391 6392 7097

ELECTROMAGNETIC
1428 4791 5368 7447
MAY FEATURE ARTICLE

FINITE AMPLITUDE
1415 2653 4649 5255 5256 5259 5730 5909 7297

FLUID
0582 0983 1803 1807 1809 2477 2717 3430 5219 6172
6549 6550 6551 6552 7221 7256

GENERATIONS
2059 2251 2823 3427 3971 3973 4651 5069 5073 5959
7303

GRANULAR MEDIA
0810 1433 4407 5744 6389 6390

GRAVITY
0367 0582 0966 2477 3427 3971 3972 4649 4659 5166
5260 5261 5960 7295 7297

INFINITE MEDIUM
0796 1421 2051 2660 3245 3794 4394 4411 4412 5062
5066 6377 6381 6392 6396 7092 7094 7095 7096

INTERACTION
1625 2468 2999 4199 4868

LAYERED MEDIA
0189 0191 1422 1430 2055 3027 3819 4397 4399 4401
4406 4650 4652 4653 5067 5260 5694 5736 5737 5964
6379 6380 6385 6389 7100 7303

MEASUREMENT
0193 0199 1414 1429 1810 2253 4413 4653 5069 5718
6285 6384 6393 7099 7105 7107

NONHOMOGENEOUS AND NON-ISOTROPIC MEDIA
0801 1421 3827 3970 4396 4398 4402 4405 7101

NONLINEAR
0185 0510 0966 1423 1625 1626 1627 2651 2935 2941
4119 4130 4774 5262 5267 5460 5734 5961 6097 6394
6606 7443 7445 7448

OCEAN
1204 1212 2808 3026 3027 3028 3030 4216 5480 7571

PLASTIC
0093 0185 1418 1429 2048 2660 4402 4403 5091 5738
6388 7098

POROUS MEDIA
3023 3628 5754 7562 7604

PROPAGATION VELOCITY
0193 0318 1585 2779 2788 4392 4396 5071 5185 5216
6285

REFLECTION AND REFRACTION
0601 2250 2252 2825 4397 4399 4650 4654 5064 5736

WAVES *CONTINUED*
5962 6080 6159 6382 6383 6384 6385 6609 6737 7438
7447

SEISMIC
0188 0190 0601 1201 1202 1422 1425 1803 2051 2467
2658 3822 4213 4214 4218 4392 4863 5718 5729 5732
5737 5743 6379 6385 6390 6838 6839 6840 7103 7566
7567 7568 7569

SHALLOW WATER
1204 2779 3026 3973 5255 5256 5259 5860 5861 5959

SOLITARY
2376 2389 3545 5255 5256 5258 5262 5958 7443

SPECTRA
1423 2253

STRINGS AND CABLES
2654

SURFACE
0189 0194 0967 0968 0969 1428 2047 2052 2054 2055
2250 2657 2658 2823 2944 3004 3248 3250 3251 3427
3621 3820 3822 3823 4398 4400 4652 4659 5063 5258
6380 6382 6383 6384 6395 7295 7442

SURF AND BREAKERS
5958 6610 6847

SWELL
2253

THREE-DIMENSIONAL
6381 6396

TORSIONAL
0800 1201

VISCOELASTIC
0083 0090 0200 1321 1419 1420 2050 2053 3252 3254
3429 3824 3825 4404 5066 5740 5741 5742 6285 7098
7099

*SEE ALSO--- IMPACT -- INTERFACE PHENOMENA --
OSCILLATIONS IN FLUID -- SEISMOLOGY -- SHOCK WAVES
IN FLUIDS -- SHOCK WAVES IN SOLIDS -- SOUND --
VIBRATION -- WAVES -- WATER HAMMER

WEAR
0610 0611 0615 0623 1222 1230 1322 1848 1850 1851
1852 2481 2483 2484 2485 2488 2490 2494 3044 3045
3873 4221 4222 4224 4226 4232 4233 4234 4429 4539
4882 4883 4884 4886 4887 4889 4891 4892 5089 5467
5468 5487 5488 5489 5491 6182 6183 6184 6865 6866
6869 6871 7580 7582 7583 7599

*SEE ALSO--- BEARINGS -- CAVITATION -- EROSION --
FRETTING -- FRICTION -- LUBRICATION

WEATHER FORECASTING-- *SEE* METEOROLOGY, SYNOPTIC,
ANALYSIS AND FORECASTING

WEIRS-- *SEE* HYDRAULIC STRUCTURES, WEIRS

WELDED STRUCTURES-- *SEE* STRUCTURES, WELDED

WELDING
0064 1941 2098 3330 3331 3332 3333 3336 4536 5151
6120 7198

ARC
6494

EXPLOSION
3329

GAS
1469

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

SUBJECT INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

41

- WELLS
2465 3626
- WHIRLING AND CRITICAL SPEEDS--- *SEE* SHAFTS,
WHIRLING
- WHISKERS
3280
- WIND--- *SEE* METEOROLOGY, WIND PRESSURE
- WINDMILLS
1640
- WIND TUNNEL
0958 0960 0988 2237 2282 2834 3449 4008 4854 5981
5982
- CORRECTIONS
0989 2279 3410 5279 5983
- HYPersonic
2275 2277 2835 2840 3466 4005 4643 4646 4692
- MEASUREMENTS
0382 0406 0962 0963 0986 0987 1141 1143 1644 1647
1648 1650 2093 2241 2246 2275 2276 2279 2406 2767
2815 2817 2818 2822 2831 2832 2833 2842 3411 3412
3421 3422 3458 4001 4005 4643 4684 4688 5249 5254
5276 5277 5278 5281 5282 5979 5980 6599 6603 6623
6629 6630 6635 7282 7283 7321 7322 7323 7324 7325
7326 7327 7328 7329 7330 7331 7340 7341 7343 7344
7345
- MODELS
3853
- SUBSONIC
0386 0986 0987 4686 4694 5244 5953 5978
- SUPERSONIC
0984 1598 4695 5957 6632 7342
- TRANSONIC
0296 0362 1651 2760 3939 4642 5983 6631
- *SEE ALSO--- SHOCK TURES
- WING BODY COMBINATION--- *SEE* AERODYNAMIC
INTERFERENCE
- WINGS
0298 0960 1510 1753 2177 2182 2241 2282 2818 2822
2841 2842 3375 3407 3412 3413 3865 4105 4636 4638
4639 4640 5200 5204 5232 5261 5282 5895 6584 6895
7141 7272 7279 7282
- DELTA
0359 0957 1132 2205 2209 2242 2763 2789 2817 2819
2832 3376 3378 3414 4641 5192 5198 5244 5278 5953
5957 5977
- HYPersonic
0904
- WINGS *CONTINUED*
- INCOMPRESSIBLE FLOW
5943 5978 6599
- PRESSURE DISTRIBUTION
5193 5886 5904
- SLENDER
1141 1157 3417 6597 7283 7344
- SPOILERS
0962 1647
- SUBSONIC
0363 0387 0957 1644 2763 2814 3416
- SUPERSONIC
0239 0343 1134 1135 1136 1752 2242 2813 2833 3377
4587 4589 4695 5939
- SWEPT
0962 0963 0986 1164 2175 2239 2240 2833 4637 6603
7321 7322 7323 7324 7325 7326 7327 7328 7329 7330
7331
- TRANSonic
1142 2759 2813 4642 5283 6558 6585 6598
- UPWASH AND DOWNWASH
6550
- *SEE ALSO--- AERODYNAMIC INTERFERENCE -- AIRFOIL
THEORY -- FLUTTER -- OSCILLATIONS IN FLUID --
STALLING, WINGS
- WIRE DRAWING--- *SEE* DRAWING
- WIRES, EXPLODING
0198 2403
- WOOD STRUCTURES
3204 3338 6463
- WOOD, TIMBER AND PLYWOOD
0843 2912 3882 3884 3905 4537 5145 5147 5807 6490
7161 7405
- X**
- X-RAY TECHNIQUES
1331 2066 2067 2689 3750 4464 4465 5105 5106
- Z**
- ZERO G PHENOMENA
0440 2441 4841 5966

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December



Author Index to Applied Mechanics Reviews

Volume 17, January-December 1964

(Numbers used are serial numbers of items)

A

FEATURE ARTICLES		
	Issue	Pages
Hashin, Z. Theory of Mechanical Behavior of Heterogeneous Media	Jan.	1-9
Viskanta, R. and Grosh, R. J. Recent Advances in Radiant Heat Transfer	Feb.	91-100
Teodorescu, P. P. One Hundred Years of Investi- gations in the Plane Problem of the Theory of Elasticity	March	175-186
Oldenburger, R. Optimum Control	April	267-274
Brown, F. T. On the Dynamics of Distributed Systems	May	353-359
Braun, L. and Truxal, J. G. Adaptive Control	July	501-508
Griffith, W. C. Is Fluid Mechanics Becoming Extinct as a Branch of Science	Aug.	579-581
Zuber, N. Recent Trends in Boiling Heat Transfer Research. Part I: Nucleate Pool Boiling	Sept.	663-672
Knuth, E. L. Supersonic Molecular Beams	Oct.	751-762
Jaswon, M. A. and Richman, M. H. A Critical Review of the Effects of Grain Boundaries on the Mechanical Properties of Materials	Nov.	857-866
von Gierke, H. E. Biodynamic Response of the Human Body	Dec.	951-958

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

AUTHOR INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

- Alushkin, V. V. 916
 Alverson, R. C. 3827
 Alwar, R. S. 1299, 1350
 1526
 Aly, H. H. 3065
 Alyamovskii, V. A. 4598
 Alzner, E. 299
 Amada, Y. 5265
 Amateau, M. F. 3171
 Ambartsumyan, S. A. 1769
 3214, 5050, 7030
 Ambrosio, A. 1681, 3914
 Amdur, I. 1655
 Amelina, L. S. 5801
 Ames, W. F. 1235, 5686
 Amirkhanov, Kh. I. 3477
 3484, 5292, 6641
 Ammi, S. 7119
 Amosov, P. N. 5101
 Amosse, J. 3876
 Amsden, A. A. 5360
 Anandakrishnan, M. 2462
 Anantharamu, S. 3754, 6985
 Anastasescu, D. 2711
 Ancker, C. J., Jr. 3668, 3669
 Antil, A. A. 6896
 Andersen, A. 5145
 Andersen, Chr. 166
 Anderson, B. H. 2314, 2688
 Anderson, G. M. 484
 Anderson, I. E. 979
 Anderson, J. D. 560
 Anderson, J. E. 5902, 6753
 Anderson, J. R. 4938
 Anderson, L. O. 3905, 4350
 6463
 Anderson, N. 1729
 Anderson, N. A. 4266
 Anderson, R. 6059
 Anderson, R. G. 699
 Anderson, R. P. 3522
 Anderson, S. H. 1895
 Anderson, T. P. 4632
 Anderson, W. J. 622, 1986
 5766
 Andersson, G. 2630
 Andersson, J. L. 3318
 Andersson, K. E. B. 2455
 Andrasfay, E. 6130
 Andreev, A. F. 5941
 Andreev, K. K. 4844, 6064
 6153, 6716, 7412
 Andreev, O. V. 883
 Andreletti, J. 4126, 5366
 5367
 Andres, U. Ts. 3567, 3997
 Andrews, E. H. 2082
 Andrews, F. C. 5993
 Andronikashvili, E. L. 7392
 Anfimov, N. A. 945
 Ang, D. D. 119, 5727, 5728
 Angelbeck, A. W. 4135
 Angelino, G. 5919
 Anglin, E. L. 2821
 Angrist, S. W. 506
 Angus, R. M. 2528
 Anisimov, S. I. 4633, 6005
 Anliker, M. 2627
 Annin, B. D. 5584
 Anselme, M. 5246
 Ansorge, R. 6196
 Anthony, M. L. 6803
 Antipenko, V. I. 5058
 Antonescu, Gr. 6484
 Antosyak, V. G. 4716
 Antsiferov, V. S. 810
 Aoki, M. 664, 670, 1284
 1929
 Aoki, S. 2973, 3365
 Aono, O. 7449
 Apanasevich, S. 4111
 Apashev, M. D. 4718
 Apeland, K. 3196
 Apin, A. Ya. 4842
 Aplin, J. E. 7291
 Appleby, E. J. 77, 6281
 Appleton, J. P. 1600
 Appolonov, G. F. 1211
 Apté, V. P. 1360
 Apykhtin, N. G. 3680
 Arai, J. 234, 7163
 Aranow, R. H. 365
 Arantes e Oliveira, E.R. 5829
 Arase, E. M. 7542
 Arcan, M. 6427
 Archer, J. S. 6881
 Arens, M. 312
 Arenstorf, R. F. 4164
 Arenz, R. J. 5740
 Argemi, J. 5501
 Argyropoulos, P. A. 881
 2124, 3055
 Arias, A. 7493
 Arima, J. 5105
 Arkad'ev, B. A. 7501
 Arkan, M. 5778
 Arkhangel'skii, Iu. A. 654
 3679, 4262
 Arkhangel'skii, M. E. 5461
 Armarego, E. J. A. 7118
 Armenakas, A. E. 147, 783
 Arney, G. D., Jr. 5971
 Arnold, J. E. 1922
 Arnold, J. O. 6039
 Arnold, V. I. 6812
 Arora, K. L. 6402
 Arrington, J. P. 7238
 Artamonov, A. Ya. 6410
 Artamonov, B. A. 5789
 Artem'ev, S. S. 883
 Arteniev, V. P. 2704
 Arthur, J. R. F. 2066, 2067
 Arthur, P. D. 1781, 2436
 Artobolevskii, I. I. 5850
 Artyukhov, V. P. 6489
 Arutyunov, Yu. S. 5610
 Arutyunyan, N. Kh. 1317
 3770
 Arvesen, J. C. 3510
 Asanuma, T. 4145
 Asaturyan, A. Sh. 5043
 Asbedian, V. V. 6335
 Aschenbrenner, R. 3185
 Ash, R. 1915
 Ashkenazi, E. K. 3299
 Ashwell, D. G. 725, 1365
 Asinovskii, E. I. 6766
 Askergaard, V. 1467
 Aslanov, S. K. 5194
 Asoskov, V. A. 7416
 Asplund, S. O. 250
 Astrom, K. J. 1290
 Attack, D. 6865
 Atanasius, M. 3328, 3674
 Athans, M. 3693
 Atkins, A. R. 6007
 Atkinson, A. H. 638
 Atkinson, C. P. 770, 2017
 Atkinson, G. L. 7214
 Atkinson, W. H. 7363
 Attewell, P. B. 5718, 6390
 Au, T. 1371, 3778
 Auelmann, R. R. 3601, 6132
 Augusti, G. 1490, 5025
 5652
 Aune, P. 5145
 Aurell, C. G. 1877
 Auslaender, J. 1846
 Ausman, J. S. 3049, 6227
 Austin, G. E. 485
 Austin, R. E. 4185
 Avalishvili, L. I. 2758
 Avduevskii, V. S. 2798
 Averbukh, A. I. 2508
 Avignon, Y. 4423
 Avivi, P. 2380
 Avramesco, A. 3248, 4406
 Awano, S. 394
 Axelrad, D. R. 2564
 Aymar, R. 2936
- B**
- Baals, D. D. 1164
 Baasch, R. J. 6208
 Baasel, W. D. 6051
 Baba, M. 1648
 Babaev, D. A. 2177, 3376
 4589
 Babcock, C. D. 2005
 Babenko, A. F. 718
 Babenko, G. S. 2732
 Babenko, K. I. 2180
 Baber, H. T., Jr. 566, 7350
 Babichev, A. P. 4798
 Babineaux, T. L. 1706
 Babloyan, A. A. 722
 Baburin, V. M. 3695
 Babuska, I. 1979
 Bachman, J. R. 538
 Arnold, J. O. 6039
 Arnold, V. I. 6812
 Arora, K. L. 6402
 Arrington, J. P. 7238
 Artamonov, A. Ya. 6410
 Artamonov, B. A. 5789
 Artem'ev, S. S. 883
 Arteniev, V. P. 2704
 Arthur, J. R. F. 2066, 2067
 Arthur, P. D. 1781, 2436
 Artobolevskii, I. I. 5850
 Artyukhov, V. P. 6489
 Arutyunov, Yu. S. 5610
 Arutyunyan, N. Kh. 1317
 3770
 Arvesen, J. C. 3510
 Asanuma, T. 4145
 Asaturyan, A. Sh. 5043
 Asbedian, V. V. 6335
 Aschenbrenner, R. 3185
 Ash, R. 1915
 Ashkenazi, E. K. 3299
 Ashwell, D. G. 725, 1365
 Asinovskii, E. I. 6766
 Askergaard, V. 1467
 Aslanov, S. K. 5194
 Asoskov, V. A. 7416
 Asplund, S. O. 250
 Astrom, K. J. 1290
 Attack, D. 6865
 Atanasius, M. 3328, 3674
 Athans, M. 3693
 Atkins, A. R. 6007
 Atkinson, A. H. 638
 Atkinson, C. P. 770, 2017
 Atkinson, G. L. 7214
 Atkinson, W. H. 7363
 Attewell, P. B. 5718, 6390
 Au, T. 1371, 3778
 Auelmann, R. R. 3601, 6132
 Augusti, G. 1490, 5025
 5652
 Aune, P. 5145
 Aurell, C. G. 1877
 Auslaender, J. 1846
 Ausman, J. S. 3049, 6227
 Austin, G. E. 485
 Austin, R. E. 4185
 Avalishvili, L. I. 2758
 Avduevskii, V. S. 2798
 Averbukh, A. I. 2508
 Avignon, Y. 4423
 Avivi, P. 2380
 Avramesco, A. 3248, 4406
 Awano, S. 394
 Axelrad, D. R. 2564
 Aymar, R. 2936
- Balakashin, B. S. 4939
 Balakrishna, S. 6624
 Balan, St. 3290
 Balandin, T. F. 4159
 5790
 Balazs, G. 1147
 Baldauf, H. 1504
 Baldin, V. A. 4534
 Baldur, R. 3433
 Balje, O. E. 7311
 Ball, E. F. 2860
 Ball, R. E. 1364
 Balla, A. 210
 Balls, C. J. 6494
 Balmer, H. A. 799
 Bamberger, E. N. 1854
 Bammert, K. 2259
 Banaugh, R. P. 2447, 3245
 Bandelin, B. G. 6326
 Bandy, M. L. 3104
 Banerjee, D. 4095
 Bangs, W. F. 181
 Bankoff, S. G. 4041, 7390
 Barabanov, N. V. 5149
 Baradell, D. L. 554, 2243
 Barakat, R. 5060
 Baranescu, G. 2138, 4705
 Baranov, A. V. 5522
 Baranov, V. B. 2949
 Baranova, N. B. 3303, 6415
 Barantsev, R. G. 4611
 Baratov, A. 3212
 Baraya, G. L. 3858, 5785
 Barbashin, E. A. 3102, 6232
 Barber, N. F. 2253
 Barbin, A. R. 955
 Barden, L. 720, 2665
 4414, 4988
 Bardassy, G. 4465
 Barenblatt, G. I. 225, 832
 5091
 Bares, R. 5019
 Barger, R. L. 6819
 Barkan, D. D. 1437
 Barker, L. K. 2424, 4944
 5448
 Barker, L. M. 7212
 Barlow, C. A., Jr. 2385
 Barlow, R. E. 6886
 Barnard, P. R. 1964
 Barnes, J. F. 5304
 Barnes, J. R. 5956
 Barnett, R. L. 2574
 Barnett, S. C. 1643
 Baron, G. 5749, 5751
 Baron, J. R. 299, 7252
 Baronet, C. N. 786
 Baronti, P. O. 5931
 Barr, D. I. H. 5165, 5184
 Barrar, R. B. 552
 Barrare, M. 6068
 Barrett, J. F. 3093, 6235
 Barrett, R. E. 177, 5721
 Barrett, W. L., Jr. 2927
 Barriol, R. 5975
 Barrow, H. 1037, 1673, 6675
 Barrows, J. F. 4556
 Barson, C. W. 232
 Bart, R. 6333
 Bartenev, G. M. 2676, 3869
 4459, 4814
 Bartlett, C. C. 10, 3786
 Bartlett, C. J. 1133
 Bartlett, E. P. 3531, 4753
 Bartlett, R. W. 1083
 Barton, F. W. 2675, 4442
 Barton, M. V. 2015
 Baruah, S. K. 3574
 Baruch, M. 145, 762

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

AUTHOR INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

45

- Bar'yakhtar, V. G. 1733
 Bashkatov, V. A. 4771
 Bashkin, V. A. 1045
 Bashkis, K. Yu. 1546
 Basina, I. P. 469
 Bassett, J. R. 6109
 Basona, N. V. 6759
 Bass, F. G. 5456
 Bassali, W. A. 6995
 Bassett, R. W. 5868
 Basso, G. 4374
 Bastin, H. 5003
 Basudev, G. 3725
 Basuli, S. 3189, 5646
 Batchelder, L. 5459
 Batchelder, R. A. 319
 Batchelor, G. K. 1574
 Batchelor, J. H. 4247
 Bate, E. R., Jr. 4561
 Bateman, T. B. 6826
 Batenin, V. M. 6766
 Bather, J. A. 641
 Batson, G. B. 216
 Baturin, V. A. 6766
 Batutis, E. F. 495
 Bauer, F. 5665
 Bauer, H. F. 369, 1630
 2254
 Bauer, J. 6009
 Bauer, S. H. 1602
 Bauer, S. J. 4832
 Bauernschub, J. P., Jr. 2127
 Bauerschmidt, D. K. 4945
 Baughman, R. A. 1854
 Baum, E. 3397
 Baus, R. 4507
 Baushis, I. P. 4320
 Bausset, M. 5207
 Bautin, N. N. 6218
 Baxter, B. E. 1781, 2436
 Bayer, R. G. 2485
 Bayley, F. J. 4051
 Bazer, J. 1730
 Bazhenova, T. V. 4599, 4601
 4602, 5399
 Beachem, C. D. 7134
 Beadle, C. W. 686, 6393
 Beall, L. G., Jr. 6491
 Beam, R. M. 6607
 Beaty, R. C. 3467
 Beauchamp, A. R. 2832
 Beaumont, S. S. 1154
 Beavers, G. S. 3978
 Bebb, M. E. 838
 Bebozertseva, L. M. 3842
 Beck, A. E. 188
 Beck, C. F. 3781
 Beck, G. 4085
 Becker, H. 1468, 2003
 3774, 3854
 Becker, J. V. 554, 1072
 Becker, K. M. 1090, 3521
 7374
 Becker, P. W. 2537, 4272
 Becker, S. M. 3685
 Beckerle, J. C. 3028
 Beckner, E. H. 7467
 Beckwith, I. E. 6031
 Beckwith, R. E. 6798
 Bedder, D. 6555
 Bedel'baev, A. K. 1917
 Bedinger, J. 6854
 Beek, W. J. 5329
 Beezhold, W. F. 4234
 Behan, R. A. 6925
 Behar, M. 5323, 5324
 Beheim, M. A. 386
 Behot, F. 4317
 Behrens, W. 5203
 Beilin, E. A. 113
 Bel, M. 5365
 Beles, A. A. 4510
 Beletskii, V. V. 6804
 Bell, D. J. 5417
 Bell, J. F. 1429, 2980, 4403
 Bellert, S. 3665
 Belles, F. E. 1082
 Belleaux, C. 2469
 Bellman, R. 5499
 Belobrov, I. K. 2704
 Belokonov, V. M. 5194
 Belotserkovskii, O. M. 4588
 Belotserkovskii, S. M. 2257
 Belozerova, A. S. 5147
 Bel'skii, V. K. 4073
 Belya, K. K. 4926
 Belyaev, A. F. 4843
 Belyaev, S. E. 5088
 Belyanin, N. M. 5882
 Belyankin, F. P. 752
 BenDaniel, D. J. 2365
 Benders, J. F. 1248
 Benedict, R. P. 403
 Benenati, R. F. 456
 Benesovsky, F. 2691
 Benjamin, T. B. 7213
 Ben-Menahem, A. 2051
 Bennet, R. 3040
 Bennethum, J. E. 1079
 Bennett, F. D. 407
 Bennett, F. V. 6809
 Bennett, G. K. 2301, 2861
 Bennett, M. D. 2802
 Bennett, R. M. 1143, 1749
 Benney, D. J. 334, 7274
 Benoit, A. 6722
 Bensky, S. M. 4101
 Benson, R. S. 5923, 7364
 Bentham, J. P. 4999
 Bentley-Llewellyn, N. J. 7566
 Benton, E. R. 3940
 Bentwich, M. 292, 451
 Benzel, J. F. 6496
 Berbente, C. 5892
 Berenson, P. J. 3520
 Beresnev, B. I. 6982
 Bereza, V. Sh. 3684
 Berezantzev, V. G. 3271
 Berezhnoi, I. A. 4322
 Berezovskii, A. A. 7386
 Berg, C. A. 219, 6955
 Berger, B. S. 1401
 Bergeron, H. P. 1897, 3110
 6242
 Berghuis, J. 5439
 Bergman, D. J. 411
 Bergmann, W. 2114
 Berindeanu, V. 3232
 Berkman, B. A. 5142
 Berkovich, E. S. 5794
 Berkovsky, B. M. 6578
 Berkowitz, H. M. 2049
 Berlad, A. L. 6002
 Berlin, M. R. 3684
 Berliner, P. 6699
 Berlot, R. R. 7348
 Berman, G. 2503
 Berman, I. 1464, 1506
 Berman, Ya. R. 3356
 Berman, M. A. 6229
 Bernatowicz, D. T. 483
 1710
 Bennett, E. C. 1481, 3266
 Bernhardt, K. 2846
 Bernicker, R. P. 6861
 Berninghausen, W. H. 4218
 Berns, H. D. 5713
 Bernshtain, M. S. 6965
 Bernstein, L. 2195
 Berry, C. J. 2833
 Bershader, D. 7466
 Bershin, H. 430
 Bershtein, V. A. 3864, 3892
 Bert, C. W. 1952, 2599
 Bertram, J. E. 626
 Bertram, M. H. 313, 2883
 4596, 6032
 Bertsch, P. K. 92
 Besant, R. W. 1038
 Besco, R. O. 4945
 Belotserkovskii, S. M. 2257
 Belozerova, A. S. 5147
 Bet'skii, V. K. 4073
 Belyaev, A. F. 4843
 Belyaev, S. E. 5088
 Belyanin, N. M. 5882
 Belyankin, F. P. 752
 BenDaniel, D. J. 2365
 Benders, J. F. 1248
 Benedict, R. P. 403
 Benenati, R. F. 456
 Benesovsky, F. 2691
 Benjamin, T. B. 7213
 Ben-Menahem, A. 2051
 Bennet, R. 3040
 Bennethum, J. E. 1079
 Bennett, F. D. 407
 Bennett, F. V. 6809
 Bennett, G. K. 2301, 2861
 Bennett, M. D. 2802
 Bennett, R. M. 1143, 1749
 Benney, D. J. 334, 7274
 Benoit, A. 6722
 Bensky, S. M. 4101
 Benson, R. S. 5923, 7364
 Bentham, J. P. 4999
 Bentley-Llewellyn, N. J. 7566
 Benton, E. R. 3940
 Bentwich, M. 292, 451
 Benzel, J. F. 6496
 Berbente, C. 5892
 Berenson, P. J. 3520
 Beresnev, B. I. 6982
 Bereza, V. Sh. 3684
 Berezantzev, V. G. 3271
 Berezhnoi, I. A. 4322
 Berezovskii, A. A. 7386
 Berg, C. A. 219, 6955
 Berger, B. S. 1401
 Bergeron, H. P. 1897, 3110
 6242
 Berghuis, J. 5439
 Bergman, D. J. 411
 Bergmann, W. 2114
 Berindeanu, V. 3232
 Berkman, B. A. 5142
 Berkovich, E. S. 5794
 Berkovsky, B. M. 6578
 Berkowitz, H. M. 2049
 Berlad, A. L. 6002
 Berlin, M. R. 3684
 Berliner, P. 6699
 Berlot, R. R. 7348
 Berman, G. 2503
 Berman, I. 1464, 1506
 Berman, Ya. R. 3356
 Berman, M. A. 6229
 Bernatowicz, D. T. 483
 1710
 Bennett, E. C. 1481, 3266
 Bernhardt, K. 2846
 Bernicker, R. P. 6861
 Berninghausen, W. H. 4218
 Berns, H. D. 5713
 Bernshtain, M. S. 6965
 Bernstein, L. 2195
 Berry, C. J. 2833
 Bershader, D. 7466
 Bershin, H. 430
 Bershtein, V. A. 3864, 3892
 Bert, C. W. 1952, 2599
 Bertram, J. E. 626
 Bertram, M. H. 313, 2883
 4596, 6032
 Bertsch, P. K. 92
 Besant, R. W. 1038
 Besco, R. O. 4945
 Belotserkovskii, S. M. 2257
 Belozerova, A. S. 5147
 Bet'skii, V. K. 4073
 Belyaev, A. F. 4843
 Belyaev, S. E. 5088
 Belyanin, N. M. 5882
 Belyankin, F. P. 752
 BenDaniel, D. J. 2365
 Benders, J. F. 1248
 Benedict, R. P. 403
 Benenati, R. F. 456
 Benesovsky, F. 2691
 Benjamin, T. B. 7213
 Ben-Menahem, A. 2051
 Bennet, R. 3040
 Bennethum, J. E. 1079
 Bennett, F. D. 407
 Bennett, F. V. 6809
 Bennett, G. K. 2301, 2861
 Bennett, M. D. 2802
 Bennett, R. M. 1143, 1749
 Benney, D. J. 334, 7274
 Benoit, A. 6722
 Bensky, S. M. 4101
 Benson, R. S. 5923, 7364
 Bentham, J. P. 4999
 Bentley-Llewellyn, N. J. 7566
 Benton, E. R. 3940
 Bentwich, M. 292, 451
 Benzel, J. F. 6496
 Berbente, C. 5892
 Berenson, P. J. 3520
 Beresnev, B. I. 6982
 Bereza, V. Sh. 3684
 Berezantzev, V. G. 3271
 Berezhnoi, I. A. 4322
 Berezovskii, A. A. 7386
 Berg, C. A. 219, 6955
 Berger, B. S. 1401
 Bergeron, H. P. 1897, 3110
 6242
 Berghuis, J. 5439
 Bergman, D. J. 411
 Bergmann, W. 2114
 Berindeanu, V. 3232
 Berkman, B. A. 5142
 Berkovich, E. S. 5794
 Berkovsky, B. M. 6578
 Berkowitz, H. M. 2049
 Berlad, A. L. 6002
 Berlin, M. R. 3684
 Berliner, P. 6699
 Berlot, R. R. 7348
 Berman, G. 2503
 Berman, I. 1464, 1506
 Berman, Ya. R. 3356
 Berman, M. A. 6229
 Bernatowicz, D. T. 483
 1710
 Bennett, E. C. 1481, 3266
 Bernhardt, K. 2846
 Bernicker, R. P. 6861
 Berninghausen, W. H. 4218
 Berns, H. D. 5713
 Bernshtain, M. S. 6965
 Bernstein, L. 2195
 Berry, C. J. 2833
 Bershader, D. 7466
 Bershin, H. 430
 Bershtein, V. A. 3864, 3892
 Bert, C. W. 1952, 2599
 Bertram, J. E. 626
 Bertram, M. H. 313, 2883
 4596, 6032
 Bertsch, P. K. 92
 Besant, R. W. 1038
 Besco, R. O. 4945
 Belotserkovskii, S. M. 2257
 Belozerova, A. S. 5147
 Bet'skii, V. K. 4073
 Belyaev, A. F. 4843
 Belyaev, S. E. 5088
 Belyanin, N. M. 5882
 Belyankin, F. P. 752
 BenDaniel, D. J. 2365
 Benders, J. F. 1248
 Benedict, R. P. 403
 Benenati, R. F. 456
 Benesovsky, F. 2691
 Benjamin, T. B. 7213
 Ben-Menahem, A. 2051
 Bennet, R. 3040
 Bennethum, J. E. 1079
 Bennett, F. D. 407
 Bennett, F. V. 6809
 Bennett, G. K. 2301, 2861
 Bennett, M. D. 2802
 Bennett, R. M. 1143, 1749
 Benney, D. J. 334, 7274
 Benoit, A. 6722
 Bensky, S. M. 4101
 Benson, R. S. 5923, 7364
 Bentham, J. P. 4999
 Bentley-Llewellyn, N. J. 7566
 Benton, E. R. 3940
 Bentwich, M. 292, 451
 Benzel, J. F. 6496
 Berbente, C. 5892
 Berenson, P. J. 3520
 Beresnev, B. I. 6982
 Bereza, V. Sh. 3684
 Berezantzev, V. G. 3271
 Berezhnoi, I. A. 4322
 Berezovskii, A. A. 7386
 Berg, C. A. 219, 6955
 Berger, B. S. 1401
 Bergeron, H. P. 1897, 3110
 6242
 Berghuis, J. 5439
 Bergman, D. J. 411
 Bergmann, W. 2114
 Berindeanu, V. 3232
 Berkman, B. A. 5142
 Berkovich, E. S. 5794
 Berkovsky, B. M. 6578
 Berkowitz, H. M. 2049
 Berlad, A. L. 6002
 Berlin, M. R. 3684
 Berliner, P. 6699
 Berlot, R. R. 7348
 Berman, G. 2503
 Berman, I. 1464, 1506
 Berman, Ya. R. 3356
 Berman, M. A. 6229
 Bernatowicz, D. T. 483
 1710
 Bennett, E. C. 1481, 3266
 Bernhardt, K. 2846
 Bernicker, R. P. 6861
 Berninghausen, W. H. 4218
 Berns, H. D. 5713
 Bernshtain, M. S. 6965
 Bernstein, L. 2195
 Berry, C. J. 2833
 Bershader, D. 7466
 Bershin, H. 430
 Bershtein, V. A. 3864, 3892
 Bert, C. W. 1952, 2599
 Bertram, J. E. 626
 Bertram, M. H. 313, 2883
 4596, 6032
 Bertsch, P. K. 92
 Besant, R. W. 1038
 Besco, R. O. 4945
 Belotserkovskii, S. M. 2257
 Belozerova, A. S. 5147
 Bet'skii, V. K. 4073
 Belyaev, A. F. 4843
 Belyaev, S. E. 5088
 Belyanin, N. M. 5882
 Belyankin, F. P. 752
 BenDaniel, D. J. 2365
 Benders, J. F. 1248
 Benedict, R. P. 403
 Benenati, R. F. 456
 Benesovsky, F. 2691
 Benjamin, T. B. 7213
 Ben-Menahem, A. 2051
 Bennet, R. 3040
 Bennethum, J. E. 1079
 Bennett, F. D. 407
 Bennett, F. V. 6809
 Bennett, G. K. 2301, 2861
 Bennett, M. D. 2802
 Bennett, R. M. 1143, 1749
 Benney, D. J. 334, 7274
 Benoit, A. 6722
 Bensky, S. M. 4101
 Benson, R. S. 5923, 7364
 Bentham, J. P. 4999
 Bentley-Llewellyn, N. J. 7566
 Benton, E. R. 3940
 Bentwich, M. 292, 451
 Benzel, J. F. 6496
 Berbente, C. 5892
 Berenson, P. J. 3520
 Beresnev, B. I. 6982
 Bereza, V. Sh. 3684
 Berezantzev, V. G. 3271
 Berezhnoi, I. A. 4322
 Berezovskii, A. A. 7386
 Berg, C. A. 219, 6955
 Berger, B. S. 1401
 Bergeron, H. P. 1897, 3110
 6242
 Berghuis, J. 5439
 Bergman, D. J. 411
 Bergmann, W. 2114
 Berindeanu, V. 3232
 Berkman, B. A. 5142
 Berkovich, E. S. 5794
 Berkovsky, B. M. 6578
 Berkowitz, H. M. 2049
 Berlad, A. L. 6002
 Berlin, M. R. 3684
 Berliner, P. 6699
 Berlot, R. R. 7348
 Berman, G. 2503
 Berman, I. 1464, 1506
 Berman, Ya. R. 3356
 Berman, M. A. 6229
 Bernatowicz, D. T. 483
 1710
 Bennett, E. C. 1481, 3266
 Bernhardt, K. 2846
 Bernicker, R. P. 6861
 Berninghausen, W. H. 4218
 Berns, H. D. 5713
 Bernshtain, M. S. 6965
 Bernstein, L. 2195
 Berry, C. J. 2833
 Bershader, D. 7466
 Bershin, H. 430
 Bershtein, V. A. 3864, 3892
 Bert, C. W. 1952, 2599
 Bertram, J. E. 626
 Bertram, M. H. 313, 2883
 4596, 6032
 Bertsch, P. K. 92
 Besant, R. W. 1038
 Besco, R. O. 4945
 Belotserkovskii, S. M. 2257
 Belozerova, A. S. 5147
 Bet'skii, V. K. 4073
 Belyaev, A. F. 4843
 Belyaev, S. E. 5088
 Belyanin, N. M. 5882
 Belyankin, F. P. 752
 BenDaniel, D. J. 2365
 Benders, J. F. 1248
 Benedict, R. P. 403
 Benenati, R. F. 456
 Benesovsky, F. 2691
 Benjamin, T. B. 7213
 Ben-Menahem, A. 2051
 Bennet, R. 3040
 Bennethum, J. E. 1079
 Bennett, F. D. 407
 Bennett, F. V. 6809
 Bennett, G. K. 2301, 2861
 Bennett, M. D. 2802
 Bennett, R. M. 1143, 1749
 Benney, D. J. 334, 7274
 Benoit, A. 6722
 Bensky, S. M. 4101
 Benson, R. S. 5923, 7364
 Bentham, J. P. 4999
 Bentley-Llewellyn, N. J. 7566
 Benton, E. R. 3940
 Bentwich, M. 292, 451
 Benzel, J. F. 6496
 Berbente, C. 5892
 Berenson, P. J. 3520
 Beresnev, B. I. 6982
 Bereza, V. Sh. 3684
 Berezantzev, V. G. 3271
 Berezhnoi, I. A. 4322
 Berezovskii, A. A. 7386
 Berg, C. A. 219, 6955
 Berger, B. S. 1401
 Bergeron, H. P. 1897, 3110
 6242
 Berghuis, J. 5439
 Bergman, D. J. 411
 Bergmann, W. 2114
 Berindeanu, V. 3232
 Berkman, B. A. 5142
 Berkovich, E. S. 5794
 Berkovsky, B. M. 6578
 Berkowitz, H. M. 2049
 Berlad, A. L. 6002
 Berlin, M. R. 3684
 Berliner, P. 6699
 Berlot, R. R. 7348
 Berman, G. 2503
 Berman, I. 1464, 1506
 Berman, Ya. R. 3356
 Berman, M. A. 6229
 Bernatowicz, D. T. 483
 1710
 Bennett, E. C. 1481, 3266
 Bernhardt, K. 2846
 Bernicker, R. P. 6861
 Berninghausen, W. H. 4218
 Berns, H. D. 5713
 Bernshtain, M. S. 6965
 Bernstein, L. 2195
 Berry, C. J. 2833
 Bershader, D. 7466
 Bershin, H. 430
 Bershtein, V. A. 3864, 3892
 Bert, C. W. 1952, 2599
 Bertram, J. E. 626
 Bertram, M. H. 313, 2883
 4596, 6032
 Bertsch, P. K. 92
 Besant, R. W. 1038
 Besco, R. O. 4945
 Belotserkovskii, S. M. 2257
 Belozerova, A. S. 5147
 Bet'skii, V. K. 4073
 Belyaev, A. F. 4843
 Belyaev, S. E. 5088
 Belyanin, N. M. 5882
 Belyankin, F. P. 752
 BenDaniel, D. J. 2365
 Benders, J. F. 1248
 Benedict, R. P. 403
 Benenati, R. F. 456
 Benesovsky, F. 2691
 Benjamin, T. B. 7213
 Ben-Menahem, A. 2051
 Bennet, R. 3040
 Bennethum, J. E. 1079
 Bennett, F. D. 407
 Bennett, F. V. 6809
 Bennett, G. K. 2301, 2861
 Bennett, M. D. 2802
 Bennett, R. M. 1143, 1749
 Benney, D. J. 334, 7274
 Benoit, A. 6722
 Bensky, S. M. 4101
 Benson, R. S. 5923, 7364
 Bentham, J. P. 4999
 Bentley-Llewellyn, N. J. 7566
 Benton, E. R. 3940
 Bentwich, M. 292, 451
 Benzel, J. F. 6496
 Berbente, C. 5892
 Berenson, P. J. 3520
 Beresnev, B. I. 6982
 Bereza, V. Sh. 3684
 Berezantzev, V. G. 3271
 Berezhnoi, I. A. 4322
 Berezovskii, A. A. 7386
 Berg, C. A. 219, 6955
 Berger, B. S. 1401
 Bergeron, H. P. 1897, 3110
 6242
 Berghuis, J. 5439
 Bergman, D. J. 411
 Bergmann, W. 2114
 Berindeanu, V. 3232
 Berkman, B. A. 5142
 Berkovich, E. S. 5794
 Berkovsky, B. M. 6578
 Berkowitz, H. M. 2049
 Berlad, A. L. 6002
 Berlin, M. R. 3684
 Berliner, P. 6699
 Berlot, R. R. 7348
 Berman, G. 2503
 Berman, I. 1464, 1506
 Berman, Ya. R. 3356
 Berman, M. A. 6229
 Bernatowicz, D. T. 483
 1710
 Bennett, E. C. 1481, 3266
 Bernhardt, K. 2846
 Bernicker, R. P. 6861
 Berninghausen, W. H. 4218
 Berns, H. D. 5713
 Bernshtain, M. S. 6965
 Bernstein, L. 2195
 Berry, C. J. 2833
 Bershader, D. 7466
 Bershin, H. 430
 Bershtein, V. A. 3864, 3892
 Bert, C. W. 1952, 2599
 Bertram, J. E. 626
 Bertram, M. H. 313, 2883
 4596, 6032
 Bertsch, P. K. 92
 Besant, R. W. 1038
 Besco, R. O. 4945
 Belotserkovskii, S. M. 2257
 Belozerova, A. S. 5147
 Bet'skii, V. K. 4073
 Belyaev, A. F. 4843
 Belyaev, S. E. 5088
 Belyanin, N. M. 5882
 Belyankin, F. P. 752
 BenDaniel, D. J. 2365
 Benders, J. F. 1248
 Benedict, R. P. 403
 Benenati, R. F. 456
 Benesovsky, F. 2691
 Benjamin, T. B. 7213
 Ben-Menahem, A. 2051
 Bennet, R. 3040
 Bennethum, J. E. 1079
 Bennett, F. D. 407
 Bennett, F. V. 6809
 Bennett, G. K. 2301, 2861
 Bennett, M. D. 2802
 Bennett, R. M. 1143, 1749
 Benney, D. J. 334, 7274
 Benoit, A. 6722
 Bensky, S. M. 4101
 Benson, R. S. 5923, 7364
 Bentham, J. P. 4999
 Bentley-Llewellyn, N. J. 7566
 Benton, E. R. 3940
 Bentwich, M. 292, 451
 Benzel, J. F. 6496
 Berbente, C. 5892
 Berenson, P. J. 3520
 Beresnev, B. I. 6982
 Bereza, V. Sh. 3684
 Berezantzev, V. G. 3271
 Berezhnoi, I. A. 4322
 Berezovskii, A. A. 7386
 Berg, C. A. 219, 6955
 Berger, B. S. 1401
 Bergeron, H. P. 1897, 3110
 6242
 Berghuis, J. 5439
 Bergman, D. J. 411
 Bergmann, W. 2114
 Berindeanu, V. 3232
 Berkman, B. A. 5142
 Berkovich, E. S. 5794
 Berkovsky, B. M. 6578
 Berkowitz, H. M. 2049
 Berlad, A. L. 6002
 Berlin, M. R. 3684
 Berliner, P. 6699
 Berlot, R. R. 7348
 Berman, G. 2503
 Berman, I. 1464, 1506
 Berman, Ya. R. 3356
 Berman, M. A. 6229
 Bernatowicz, D. T. 483
 1710
 Bennett, E. C. 1481, 3266
 Bernhardt, K. 2846
 Bernicker, R. P. 6861
 Berninghausen, W. H. 4218
 Berns, H. D. 5713
 Bernshtain, M. S. 6965
 Bernstein, L. 2195
 Berry, C. J. 2833
 Bershader, D. 7466
 Bershin, H. 430
 Bershtein, V. A. 3864, 3892
 Bert, C. W. 1952, 2599
 Bertram, J. E. 626
 Bertram, M. H. 313, 2883
 4596, 6032
 Bertsch, P. K. 92
 Besant, R. W. 1038
 Besco, R. O. 4945
 Belotserkovskii, S. M. 2257
 Belozerova, A. S. 5147
 Bet'skii, V. K. 4073
 Belyaev, A. F. 4843
 Belyaev, S. E. 50

AUTHOR INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

- Bogorodskii, A. F. 7513
 Bogoyavlenskii, K. N. 6979
 Bogusz, W. 6907
 Bogy, D. B. 790, 3224, 5658
 Bohon, H. L. 1754
 Boichenko, G. A. 224
 Boichuk, O. P. 5531
 Boim, A. A. 6996
 Boissiere, J. M. 3903, 4512
 Boitien, R. G. 5577
 Bok, L. C. 1816
 Boland, P. 2461
 Boldakov, E. V. 883
 Baley, B. A. 2966, 3577
 Boley, F. I. 3557
 Bollinger, J. G. 7067
 Bollinger, L. E. 4186, 4191, 4194
 Bolotin, V. V. 224, 2640, 4438, 5631, 7127
 Bol'shakov, A. G. 894
 Bolshakov, K. P. 3331
 Bonamy, S. E. 393
 Bonavito, N. L. 4837
 Bond, D. 854
 Bondar, M. G. 2624
 Bondar, N. G. 5546
 Bondar', V. D. 1947
 Bondarenko, V. N. 7414
 Bondarev, Yu. E. 3753, 6867
 Bonder, J. 5881
 Bondy, P. 2879
 Bonilla, C. F. 6027
 Bonnefille, R. 7211
 Bonnet, C. 5525
 Bonsignour, D. 5742
 Boobar, M. G. 4062
 Book, D. L. 6093
 Booth, F. W. 566
 Boothroyd, G. 5762, 6652
 Bore, C. L. 3415
 Boreli, M. 5873
 Boriesi, A. P. 4982
 Borg, S. F. 3054, 6444
 Borges, J. F. 5829
 Borishanskii, V. M. 426, 2336, 2337, 5288
 Borisenko, L. N. 6485
 Borisenok, I. T. 6375
 Borisov, D. S. 5036
 Borisov, V. M. 1594
 Borisov, Yu. Ya. 7546
 Borisova, N. A. 3118, 3345
 Borkowski, S. 2594
 Borland, J. C. 1469
 Born, J. 2115
 Borodin, N. A. 5611
 Borodin, V. A. 366
 Borodina, R. M. 679
 Borovik, E. S. 7433
 Borovskii, Ju. E. 1904
 Bors, C. I. 4155, 4802
 Borsch-Supan, W. 3053
 Borsoff, V. N. 623
 Borzyka, A. M. 5788
 Boschat, de J. 715
 Bose, S. C. 2412, 6260
 Bose, S. K. 5964
 Boshnyak, L. L. 4677
 Bostick, W. H. 511, 575, 4138
 Boswirth, L. 4032
 Bosworth, R. C. L. 4733
 Bott, T. R. 5303
 Botterill, J. S. M. 2312
 Boublil, Y. 6754
 Bouchard, F. 4024
 Boudarel, R. 2539
 Boulassier, J. C. 4801
 Boundy, C. A. P. 3307
 Bourbeau, F. J. 361
 Bourrel, J. 5976
 Bouwkamp, J. G. 4460
 Bowden, K. F. 3031
 Bowen, P. H. 2483
 Bowman, J. S., Jr. 4694
 Bowsher, J. M. 6157
 Boyadjeff, G. 6915
 Boyarskaya, Yu. S. 5112
 Boychuk, L. M. 6922
 Boyd, A. T. 3415
 Boyle, W. S. 3281
 Boynton, F. P. 350, 3491
 Bozhko, N. S. 7021
 Bozich, D. J. 5455
 Brabner, R. 2705
 Bradbury, R. E., Jr. 1405
 Bradley, R. G., Jr. 1615
 Bradley, R. S. 6193
 Bradley, W. A. 2000
 Bradley, W. G. 3463, 3464
 Bradshaw, P. 956, 5276
 Bradshaw, R. D. 1689
 Bradshaw, R. R. 3899, 5834
 Brady, A. G. 3239
 Bragg, L. E. 4022, 4963
 Bragg, S. L. 7419
 Braier, A. 1394
 Brailey, R. J. 1452
 Brailevskaya, I. Yu. 4626
 Brainerd, J. J. 2222
 Brainia, M. I. 4096
 Brainin, E. I. 712
 Braisted, P. W. 1922
 Braithwaite, J. C. 230
 Bramall, B. 1976
 Bramberg, S. 2630
 Bramble, J. H. 1298, 3138
 Brameld, H. G. 814
 Brandmaier, H. E. 6761
 Brandt, H. L. 3007
 Brandt, N. B. 4813
 Branin, F. H., Jr. 2110
 Brann, J. H. 5624
 Branover, G. G. 4776, 4794
 Branson, D. E. 4972
 Brard, R. 6517
 Bratenahl, A. 1717
 Brater, E. F. 3342
 Bravchenko, B. A. 4426
 Bray, K. N. C. 2835
 Bray, R. S. 3582
 Brazhnikin, M. I. 805
 Brebner, A. 3013, 3030
 Brebnikov, E. A. 6146
 Brehme, R. W. 651
 Breiburt, G. Ya. 1809
 Brekka, L. T. 2979
 Brendel, G. 5615
 Brendel, K. D. 3226
 Brenner, H. 1194, 1814
 Brenner, L. T. 6632
 Bresler, B. 101
 Breslin, J. P. 1404, 2639
 Brettschneider, M. 575
 Brewer, R. C. 2080
 Brezina, V. 7039
 Brian, P. L. T. 3625
 Brichkin, A. V. 2361
 Brickman, A. D. 789
 Brickwedde, F. G. 2295
 Bridgeman, O. C. 5291
 Bridgland, T. F., Jr. 6920
 Briggs, D. E. 1697
 Briggs, E. M. 2616
 Brignol, R. 2702
 Brin, I. A. 4932
 Brindley, J. 4738
 Brinich, P. F. 4772
 Brinkmann, G. 1300, 4373
 Britton, S. C. 1447
 Britvec, S. J. 818, 5666
 5667, 7047
 Broadwell, J. E. 908
 Brocher, E. F. 5984
 Brochet, C. 5452
 Brock, J. E. 7486
 Brodeau, A. 6778
 Broding, R. A. 7566
 Broding, W. C. 2970, 7173
 Brodkey, R. S. 1538
 5950, 7205
 Brodskii, V. B. 4796, 4797
 Broek, D. 3305, 7137, 7143
 Broeke, H. 5847
 Broer, L. J. F. 523, 7294
 Broersma, G. 252
 Brogan, T. R. 4060
 Broida, V. 624
 Broman, G. E. 463
 Broms, B. B. 3258, 6399
 Brondum-Nielsen, T. 2592
 Bronshcen, V. A. 1747
 Bronskii, L. N. 4590, 4860
 Brook, J. W. 6551
 Brooks, R. D. 6027
 Brotschie, J. F. 6454
 Broude, B. M. 1344, 4365
 Brounshtein, B. I. 3456
 Brovman, M. Ya. 1969, 4158
 Brown, B. F. 3666
 Brown, C. B. 1432, 3002
 Brown, D. K. 5490
 Brown, D. P. 1296
 Brown, D. W. 3603, 7422
 Brown, F. T. 7207
 Brown, F. W. 7342
 Brown, G. W. 6436, 7144
 Brown, J. F. 1093
 Brown, K. E. 5182
 Brown, L. W. 7288
 Brown, N. A. 6622
 Brown, O. G. 3350
 Brown, P. W. 6861
 Brown, R. A. 6769
 Brown, R. D. 5312
 Brown, R. H. 7118
 Brown, R. J. E. 5756
 Brown, R. S. 6059
 Brown, S. N. 3403
 Brown, W. B. 3063, 5996
 Brown, W. F., Jr. 6256, 6438
 Brown, W. M. 1923
 Brownlee, W. G. 4764
 Brumfield, M. L. 1939
 Brun, E. A. 5315, 6108
 Brun, R. 3460, 5986
 Brundin, C. L. 2406
 Brunelle, E. J. 4879
 Brunet, S. 5855
 Brunschwig, F. S. 537
 Brush, L. M. 3926
 Brusilovskii, A. I. 3775
 Brusilovskii, I. V. 1636
 Bruszak, A. E. 1700
 Brutsaert, W. 5744
 Bryant, H. C. 433
 Bryant, J. F., Jr. 384
 Bryce, W. D. 2646
 Brykov, A. V. 4911
 Bryngdahl, O. 4082
 Bryson, A. E., Jr. 1875
 4166
- Bryzgalin, G. I. 1961
 Buch, N. 2608
 Buchal, R. N. 184
 Buchanan, M. L. 1233
 Buchele, D. R. 6645, 6719
 Buchwald, V. T. 1949, 2054
 3131, 3132, 3133, 6257
 Buckens, F. 1517
 Buckley, D. H. 2492, 3045
 4886
 Buckley, J. D. 7494
 Budiansky, B. 745, 6348
 Budyko, M. I. 5486
 Bueckner, H. 1014
 Buehler, R. J. 6201
 Buell, D. A. 987
 Bufler, H. 730, 4956
 5630, 7033
 Bugakov, I. I. 6282
 Buglia, J. J. 480, 1905
 Bukharinov, G. N. 7080
 Bukhvostov, A. P. 2893
 Buleev, N. I. 645
 Bulkeley, P. Z. 3218
 Bullock, R. C. 6813
 Bullock, R. O. 7312
 Bump, T. R. 1034
 Bumpus, C. F., Jr. 4068
 Bunatyan, L. A. 3721
 Bunkin, F. V. 4012
 Bunnewith, G. E. 197
 Burak, Ya. I. 4996
 Burakas, A. I. 1494
 Burbank, P. B. 6710
 Burdekin, F. M. 1445
 Burden, H. S. 407
 Burgers, J. M. 2373, 4004
 Burgess, D. 1700
 Burggraf, O. R. 5831
 Burgoyne, F. D. 8
 Burian, Y., Jr. 5542, 5543
 Burk, S. M., Jr. 3423
 Burke, M. B. 4493
 Burkhardt, J. A. 1927
 Burling, R. W. 2808
 Burmistrov, E. F. 4353
 Burnat, M. 1583
 Burniston, E. E. 3766
 Burns, A. 1210, 7292
 Burns, A. B. 743, 3789
 Burns, C. D. 808
 Burns, J. J., Jr. 6343
 Burns, R. E. 1786
 Burrough, H. L. 5723
 Burrows, A. A. 3716
 Burt, M. W. 1879
 Burt, O. R. 2513
 Burton, R. A. 2489, 4443
 Burtsev, V. Z. 6439
 Busemann, A. 2287
 Busemann, R. 1504
 Bushmin, A. S. 3570
 Bussert, J. F. 477
 Butcher, B. M. 7121
 Butenko, G. F. 1662
 Butkovskii, A. G. 3707
 Butler, J. B., Jr. 773, 5733
 Butler, S. F. J. 960
 Buzitskiy, V. N. 2645
 Buzukov, A. A. 3946
 Bychkov, A. G. 3440, 3444
 Byers, D. C. 7423
 Byers Brown, W. 520
 Byfield, H. 575
 Bykov, V. A. 7159
 Bynum, D. J. 2095
 Byrer, T. G. 4492

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

C

- Cabannes, F. 1737, 5383
 Cabannes, H. 1656
 Caffo, E. 6062
 Cailleux, A. 4872
 Cakiroglu, A. 3072
 Cakmak, A. S. 2415
 Calladine, C. R. 2580, 5601
 Calligeros, J. M. 1135, 1136
 Calmaciu, L. 2723, 6484
 Caloi, P. 4213
 Calvet, P. 6709
 Camac, M. 1670
 Cambel, A. B. 2796, 2945
 Cameron, I. G. 2391
 Cameron, I. R. 4769
 Cameron, R. E. 812
 Camichel, C. 5189
 Camion, T. 315
 Camm, J. C. 528
 Cammerer, J. S. 2857
 Cammerer, W. F. 7557
 Camp, J. D. 2896
 Camp, T. R. 7558
 Campbell, D. T. 2910
 Campbell, J. F. 6603
 Campbell, W. D. 3956
 Campus, F. 3743, 3744
 3745, 3746
 Cannon, J. R. 1018, 6003
 Cantrell, R. H. 583, 584
 3001, 5450, 6066
 Cape, J. A. 2356
 Caporali, R. L. 4879
 Capriz, G. 703, 6366
 Carafoli, E. 3417, 5892
 5904
 Carbone, R. M. 1646
 Card, M. F. 3304
 Care, J. M. 422
 Cargill, J. M. 1453
 Carlson, H. W. 5245
 Carlson, R. 4434, 6959
 Carlsson, A. J. 5139
 Carney, T. M. 2422
 Carpenter, P. J. 1170
 Carpenter, R. T. 490
 Carpenter, J. 5169
 Carré, T. R. 4526
 Carrier, G. F. 3632
 Carron, M. K. 7395
 Carros, R. J. 475
 Carswell, A. I. 2274
 Carter, A. D. S. 7309
 Carter, H. S. 446
 Carter, R. W. 979
 Cartwright, W. F. 792
 Cary, B. 1130
 Cary, J. W. 1385
 Casacci, S. 3732
 Casal, P. 2478, 4549
 Cash, R. F. 2840, 6555
 Cassatt, D. 15
 Cassignol, E. J. 5542, 5543
 Castel, Y. 5749
 Castex, L. 5173
 Castle, C. B. 5806
 Catalfamo, C. R. 4100
 Catharin, P. 5792
 Catherall, D. 3407
 Caubo, M. 3166
 Caughey, T. K. 179
 Causse, R. 4800
 Cavalier, G. 4689
 Cavoti, C. R. 6801
 Cawthorn, J. M. 6822
 Celis, A. J. 3895
- Cercignani, C. 431, 3390
 Cermak, J. E. 346, 6596
 Cermak, J. O. 5181
 Chacon, R. V. S. 3924
 Chadwick, P. 714, 7477
 Chaevskii, M. I. 5110
 Chahine, M. T. 918
 Chajes, A. 818
 Chakraborty, B. B. 5386
 Chakravarty, R. B. 270
 Chakravorti, A. 4964, 4994
 Chaleat, R. 4269, 4371
 Chambadal, P. 4696
 Chan, C. H. 7353
 Chan, H. S. Y. 5825, 6474
 Chan, K. S. 7372
 Chandler, W. A. 494
 Chang, C. C. 1156, 1719
 Chang, C. H. 7049
 Chang, I. D. 3372
 Chang, J. C. L. 3778
 Chang, Jen-Wei 1931
 Chang, S. 3254
 Chang, S. S. L. 45, 4009
 Channapragada, R. S. 924
 Chao, B. T. 7549
 Chao, C. C. 5735
 Chapman, A. J. 5339
 Chapman, G. T. 6671
 Chapman, J. C. 5815
 Chappell, M. S. 1002
 Charatis, G. 1654
 Charcenko, N. 301, 903
 Chari, R. V. 2750
 Chari, S. S. 4469, 5854
 Charkviani, O. A. 2543
 Charlton, T. M. 2109, 2522
 Charlu, K. L. N. 2150
 Charnyi, I. A. 4074
 Chartier, C. 5986
 Charwat, A. 3949
 Chato, J. C. 2878
 Chaturvedi, R. S. 1542
 Chaudhuri, A. K. 2544
 Chaudhury, T. K. 3363
 Chaudhury, Z. H. 7248
 Chaulia, P. B. 2091, 2559
 Chaumet, P. 3024
 Chausov, N. S. 3076
 Chautard, J.-P. 2256
 Chauvin, J.-L. 1545
 Chebisheva, K. V. 3442
 Chebotarev, G. A. 3597
 Chechel'nietskii, G. G. 4473
 Checheta, I. A. 5411
 Cheers, F. 7225
 Chekalin, E. K. 5352
 Chekmarev, I. B. 1727, 7434
 Chelpanov, I. B. 2625, 3113
 Chen, C. F. 281
 Chen, C. J. 4614
 Chen, J. C. 6041
 Chen, L. H. 1802
 Chen, L. K. 2701
 Chen, S. Y. 1067
 Chen, T. S. 5208, 6531
 Chen, W. S. 2234
 Chen, Y. 719, 768, 4960
 Cheney, E. W. 1881
 Cheney, G. T. 1074
 Cheney, J. A. 3758, 7044
 Cheng, C. J. 3333
 Cheng, P. 5453
 Cheng, R. K. 4163
 Cheng, S. 731, 2612
 Cheng, S. I. 3014
 Cheng, Y. F. 5782
 Cheprasov, V. A. 3720
 Cherepanov, G. P. 693, 1309
 1967, 4326, 5083
 5505, 5771
 Cherepin, V. T. 4714
 Cherkesov, L. V. 4651
 Cherkudinov, S. A. 7192
 Cherneeva, L. I. 3479
 Chernets, A. N. 2453
 Chernigov, V. A. 83
 Chernigovskaya, E. I. 733
 Chernina, V. S. 4998
 Chernous'ko, F. L. 5428
 Cherny, G. G. 5900
 Chernyagin, B. M. 6218
 Chernyakov, P. S. 6188
 Chernykh, K. F. 5626
 Chernykh, M. I. 268
 Chernyshev, G. N. 125
 Chernyshev, V. M. 3889
 4472
 Cherry, W. R. 487
 Chevryakov, S. S. 6057
 Chesson, E., Jr. 1523, 1524
 1525
 Chi, M. 5818
 Chi, S. W. 2345, 2791, 4623
 Chia-yun Xui 6931
 Chiche, F. 6597
 Chichinadze, V. K. 2543
 Chicurel, R. 1972
 Chidester, G. H. 3338
 Chien, S.-F. 6533
 Ch'ien-Sheng, W. 130
 Chikwendu, L. N. 5862
 Chilap, A. la. 5470
 Childs, J. H. 498
 Childs, M. E. 4629
 Chilver, A. H. 5667
 Chinn, J. 1946
 Chirkin, A. P. 1086
 Chiu, Y. P. 3187, 6272
 Chizhik, V. N. 4531
 Chizhov, A. F. 5295
 Chobotov, V. 3221, 4168
 Choquet, J. A. 5111
 Chou, P. C. 7243
 Chou, Y. P. 5459
 Choudhuri, R. K. 549
 Choulis, D. 4762
 Chow, C. L. 5299
 Chow, W. L. 5212
 Chowdhury, D. K. 1422
 Christensen, H. 4229
 Christensen, R. M. 778
 6953, 6961
 Christiansen, K. P. 7185
 Christie, I. F. 3080
 Chu, B.-T. 1419, 2824, 5730
 Chu, C. K. 6733, 7462
 Chu, Jen-yi 4805
 Chu, K.-H. 4358
 Chu, W.-H. 785, 1131
 6857, 7301
 Chubarova, G. V. 4470
 Chubukin, P. F. 5080
 Chudov, L. A. 4626
 Chudzikiewicz, A. 1339
 Chukhanov, Z. F. 3526
 Chukhina, L. L. 5774
 Chulkov, P. P. 4349, 5016
 5018
 Chung, P. M. 991, 1704
 2226, 4107, 6562
 Church, A. H. 2620
 Church, J. M. 1482
 Chushkin, P. I. 2765, 2769
 Chyshkin, P. I. 7533
 Chzhen'-Chen, Chen' 1425
 Chzhe-ven, C. 2023
 Cicala, P. 124, 1991
 Cicci, F. 7135
- Cicolani, L. S. 2423
 Ciepluch, C. C. 4090
 Ciganek, M. 5797
 Cisternas, A. 2051
 Citron, S. J. 1793
 Cizeron, G. 4449
 Cladis, J. B. 6109
 Claria, A. 5187
 Claria, J. 4557, 6192
 Clark, C. C. 244
 Clark, C. F. 6212
 Clark, D. R. 2781
 Clark, F. L. 305
 Clark, J. A. 6016, 6047
 Clark, L. G. 5686, 6237
 Clark, O. H. 5489
 Clark, R. B. 1744
 Clark, S. K. 7018
 Clarke, J. F. 2806, 5880
 Clarke, V. C., Jr. 2975
 Clarkson, B. L. 4448
 Clarkson, J. 1357, 1509
 6328
 Clary, R. R. 163, 6371
 Claudon, J. 5605, 5654
 Clauer, H. R. 2098
 Clauss, F. J. 2495
 Clayton, B. R. 4676
 Cleaver, J. W. 2806
 Clegg, D. B. 5853
 Clemmons, D. L., Jr. 4839
 Clerc, D. 178, 7476
 Cleveland, R. G. 6535, 6536
 Cliff, R. A. 3075
 Clifton, R. J. 1371, 3778
 Clifton, T. E. 847
 Cline, G. B. 1367
 Clingman, D. L. 5390
 Clinton, W. C. 2485
 Close, D. J. 453
 Close, R. A. 5619
 Clough, N. 7536
 Clough, R. W. 815, 6470
 Cloupeau, M. 5355
 Cloutier, M. 2212
 Clulow, E. E. 2692
 Clutter, D. W. 2206
 Coates, R. L. 6720
 Cobble, M. H. 1017, 1235
 4083, 4754, 6046, 7368
 Coble, G. L., Jr. 5705
 Cochlin, I. 637
 Cocke, B. W., Jr. 7494
 Cockshutt, E. P. 1002
 Codegone, C. 4019
 Coffee, C. W., Jr. 6815
 Coffin, L. F. 2101
 Cohen, G. A. 141
 Cohen, I. M. 2331
 Cohen, L. 3468
 Cohen, M. H. 7459
 Cohen, M. I. 6370
 Cohen, N. B. 1048
 Cohn, E. M. 497
 Colao, A. 3854
 Colavincenzo, O. M. S. 5420
 Colburn, D. S. 7421
 Colby, B. R. 6846
 Colding, B. N. 2077
 Cole, B. N. 2069
 Cole, G. H. A. 1556
 Cole, H. A., Jr. 1140
 Cole, J. D. 2990
 Cole, R. R. 2952, 3277
 Coleman, B. D. 2293, 4010
 4022, 4963, 6780
 Collatz, L. 1888
 Collingbourne, J. R. 2242
 Collins, D. J. 1706, 4048

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

AUTHOR INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

- Collins, I. K. 7404
 Collins, M. 5160
 Collins, W. D. 3362
 Colombo, G. 6805
 Colonnetti, G. 4530
 Colwell, L. V. 826
 Comer, R. L. 2575
 Comisar, G. G. 6755
 Commerford, G. E. 1032
 Comte-Bellot, G. 2811
 Conangla, A. 413
 Concus, P. 15
 Cone, C. D., Jr. 3590
 Conly, J. F. 4659
 Conn, J. H. 2648
 Connally, R. F. 1859
 Connor, L. N. 6639
 Conrad, D. A. 4163
 Consoli, T. 4050, 4121
 5400, 6096
 Constantinescu, V. N. 3047
 Contensou, P. 7509
 Conway, H. D. 686, 1994
 2597, 6267
 Cook, B. S. 313, 4596
 Cook, G. E. 607, 6133
 Cook, H. 6573
 Cook, I. T. 3210, 6342
 Cook, M. A. 1010
 Cook, N. H. 3841
 Cooke, J. C. 936, 1236
 2209, 2240, 3411, 5939
 Cooney, J. A. 3538
 Cooper, P. 5271
 Cooper, P. B. 7014
 Cooper, R. S. 7455
 Cope, D. S. 2520
 Copeland, W. C. 6157
 Copeland, W. L. 1810
 Cord, M. S. 1866
 Cordero, J. 3014, 6667
 Cordes, G. 7310
 Cordey, J. G. 7443
 Corduneanu, C. 3667
 Coren, G. 5851
 Cormack, G. D. 2955
 Cornett, R. H. 3613
 Correia de Araujo, F. 4296
 Corrsin, S. 953
 Corteville, J. 5126
 Costantino, C. J. 830
 Costello, C. P. 1686, 6692
 Costello, G. A. 573
 Costigan, P. J. 4694
 Cotterell, B. 1469
 Cottrell, C. L. M. 3878
 Couch, W. P. 6469
 Coull, A. 5623
 Coull, J. 7351
 Council, F. E., Jr. 3605
 Counihan, J. 4686
 Coupy, G. 5702
 Courtel, R. 4955
 Courtillat, M. 1250
 Couts, W. H., Jr. 4437
 Covert, E. E. 1126, 7456
 Cowdrey, C. F. 2182
 Cowgill, G. R. 2844
 Cowley, M. D. 5369
 Cox, A. 5474
 Cox, H. L. 3209
 Cox, S. G. 2278
 Cozzarelli, F. A. 89, 3739
 Crabbe, R. S. 2831, 4619
 Crabol, J. 4713
 Craemer, H. 3322
 Craggs, J. W. 7293
 Craig, R. A. 3529, 6850
 Craig, R. R., Jr. 168
 Crandall, S. H. 330
- Crausse, E. 4120, 4800
 5397
 Craven, A. H. 2768, 3414
 Crawford, D. H. 3400
 Crawford, F. 5372, 5373
 Crawford, R. 2034
 Crawford, R. F. 743, 3789
 Creeden, J. E. 4690
 Cristescu, N. 2654, 4981
 6387
 Crocco, L. 3401, 7409
 Croitoru, E. 4918
 Croitoru, H. 2523
 Cross, G. B. 5516
 Cross, J. L. 1642
 Crossland, B. 6466
 Crouse, J. E. 4673, 6620
 Crouzil, J. 5976
 Crow, S. C. 5787
 Crum, R. G. 1459
 Cryer, C. W. 3830
 Csaki, F. 6924
 Csanady, G. T. 1621, 2216
 Csoknya, H. 1388
 Csanka, P. 68, 3181
 3188, 3190
 Cubbison, R. W. 52
 Cullimore, M. S. G. 7196
 Cullom, R. R. 3512
 Culver, I. H. 1171
 Cumberbatch, E. 2394
 Cummings, B. E. 5699
 Cunniff, P. F. 5746
 Cunningham, F. G. 2327
 5445
 Cunningham, H. J. 1755
 Cunningham, W. J. 3101
 Cunsolo, D. 5945
 Curl, R. L. 1095
 Curle, N. 1604
 Curran, J. K. 5281
 Curtet, R. 4681
 Curtis, A. R. 886
 Cusens, A. R. 3319
 Cutler, M. 1074
 Cuvellier, J. 4801
 Cybulski, R. J. 498, 1096
 Czaika, N. 4292
 Czarnecki, K. R. 2218
 Czekanski, J. 4051
 Czibere, T. 6617
 Czichon, G. 5140
 Czudek, H. 109
- Dabrowski, R. 7005
 Dabuzhinskas, K. Yu. 1546
 Dacosta, M. 6000
 DaDeppo, D. A. 2042
 Dagan, G. 6176
 d'Agostino, S. 5652
 Dahlberg, E. 500, 1120
 Dahlberg, E. P. 7134
 Daily, J. W. 6335, 7550
 7551, 7552
 Dallenbach, W. 3561
 Dally, J. W. 6393
 Dalton, C. C. 2988
 Dalzell, J. F. 3645
 Dalziel, J. A. 5089
 d'Amelio, C. 998
 Danberg, J. E. 7342
 Danby, J. M. A. 6793
 Danek, G. J., Jr. 839
 Daneri, A. 3390
 Danforth, E. C. B. 4102
- D'Angelo, N. 514
 Daniel, I. M. 1151
 Danila, S. I. 1501
 Danilov, I. B. 2299
 Danilov, V. N. 4479
 Danilov, Yu. I. 7503
 Danilova, G. N. 4073
 Danilovskaya, V. I. 1767
 Dantu, P. 4310
 Danyluk, H. T. 5084
 D'Appolonia, E. 3270
 Daring, D. W. 1851
 Darevskii, V. M. 5030
 Darling, E. M., Jr. 3637
 Darovskikh, L. N. 1890, 3090
 Darrozes, J. 6559
 Darwell, H. M. 913
 Das, B. R. 1768, 2962
 Das, P. K. 7126
 Das, S. C. 3757
 Das, Y. C. 1146
 Dash, J. G. 7338
 Dat, R. 5200
 Date, M. 1965
 Dathe, H. M. 360, 6788
 Datsko, J. 5118
 Datskovskii, V. M. 3528
 Datta, K. K. 4469
 Dattner, A. 2404
 Dautov, G. Yu. 1113, 2960
 Davenport, E. E. 3583
 Davey, W. C. 3529
 David, J. 4656
 David, M. M. 2340
 Davidenkov, N. N. 712
 Davidovskii, V. Ya. 7438
 Davids, N. 581, 3152
 Davidson, B. Kh. 2545
 Davidson, T. E. 2680
 Davies, B. 5718
 Davies, D. E. 6598
 Davies, E. 5089
 Davies, E. B. 7268
 Davies, E. D. H. 3306
 Davies, G. A. O. 66, 5593
 6257
 Davies, G. J. 2079
 Davies, J. D. 7001
 Davies, J. M. 4325
 Davies, L. 7347
 Davies, M. G. 4228
 Davies, R. J. 1137
 Davies, R. M. 5575, 5579
 Davis, A. 2054, 4097
 Davis, A. M. J. 6086
 Davis, D. H. 4605
 Davis, E. A. 1966
 Davis, E. J. 2340
 Davis, H. 7525
 Davis, H. T. 6636
 Davis, J. W. 4135
 Davis, M. C. 4901
 Davis, P. A. 1831
 Davis, R. T. 5935
 Davison, E. H. 6414
 Davison, M. T. 206
 Davydov, Ya. S. 4520
 Daw, D. F. 5422
 Dawance, G. 5709
 Dawson, J. 7426
 De, J. 6087
 Deacon, G. E. R. 7571
 Dean, D. L. 5641, 6984
 Dean, R. G. 5962
 Dean, W. R. 2157
 Deardorff, J. W. 1608
 Deb, D. 3780, 5594
 DeBeer, E. E. 1439
 Debler, W. R. 7209
 de Boer, P. C. T. 4004
- Debrivnyi, I. E. 159
 DeCarlo, J. 2795
 deCarvalho, J. J. R. 2737
 Dechaene, R. 3284
 Decher, R. 4060
 Deciu, E. D. 2667
 Deckert, W. H. 7340
 Deckker, B. E. L. 5350
 Dee, F. W. 3594
 Deekshatulu, B. L. 682
 2501, 3803
 Deem, R. E. 336
 Deffrenne, P. 7565
 deFouquet, J. 3875, 4961
 5122, 5123
 de G. Allen, D. N. 1255
 Degenholtz, A. 5722
 Degeorges, G. 6465
 Degil', B. S. 3260
 DeGrafft, W. E. 4833
 Degrois, M. 5462
 Degtyarev, V. G. 5440
 De Haas, N. 2850
 Dehlinger, P. 1422
 Dehouze, N. M. 2733, 4571
 Deissler, R. G. 344, 2810
 de Jesus Fernandes, A. 3904
 Dekhtyar, L. I. 6286
 Dekker, T. J. 3056
 Delcroix, J. 6706
 DeLeeuw, S. L. 1316, 2617
 Delesalle, J. 6367
 Delie, A. 3676
 Deloncle, M. 4203
 Demicki, E. 4419, 4559
 5082
 Demele, F. A. 6685
 Demer, L. J. 1474
 Demetri, E. P. 4076
 Demetriaides, A. 6593
 Demidov, V. P. 3552, 6739
 Demin, V. G. 4829, 4836
 6146, 6147
 Demirkhanov, R. A. 7452
 Demishev, G. K. 3869
 De Morton, M. E. 3244
 Dem'yanov, Yu. A. 415
 Dem'yanov, Yu. S. 7008
 Denardo, B. P. 2992
 Dengler, R. P. 339
 Denham, W. F. 1875, 4166
 4821
 Denisov, A. S. 811
 Denisov, N. Ya. 3264
 Denisov, Yu. N. 466
 Denman, H. H. 6890
 Dennard, J. S. 3473
 Dennery, F. 2859
 Denton, A. A. 1466
 Depolo, G. G. 4945
 Deprit, A. 3676
 Der, J. J. 944, 5951
 Derdul, J. D. 6608
 Deresiewicz, H. 539, 3628
 DeRieux, E. T. 1707
 deRijk, P. 2088, 7137
 7141, 7143
 DeRooij, F. N. 870
 Dershin, H. 449, 6666
 DeRusso, P. M. 1913, 6914
 Desai, H. S. 4049
 Deskins, H. E. 3392
 Desloge, E. A. 1108
 Desoer, C. A. 1280
 Detinko, F. M. 3777, 4950
 Deutsch, E. 3735, 3759
 4990
 Deutsch, G. C. 240
 Deutsch, R. V. 4130
 DeVan, J. H. 884

D

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

AUTHOR INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

49

- deVarennes e Mendonca, P. 6506
 Devenpeck, M. L. 824
 DeVries, G. 2035
 de Vries, J. P. 4826
 Devyatov, A. M. 6759
 Dewan, E. M. 2370
 Dewey, C. F., Jr. 7258
 Dewhurst, D. L. 573
 De Wiest, R. J. M. 3020
 De Witt, K. J. 4708
 Dhaliwal, R. S. 6312
 Dharmarajan, S. 6957
 Diamond, M. 3634
 Diaz, J. B. 628
 Dicesare, E. 6896
 Dicker, D. 4027
 Dickinson, H. 511
 Dickinson, J. 5226
 Dickinson, S. O. 7340
 Dickstein, D. H. 2986
 Didriksson, T. 5014
 Diederich, F. W. 7173
 Diederichsen, J. 465
 Diep, G. B. 5315
 Diercks, K. J. 1632
 Dikii, G. P. 5378
 Dillon, O. W., Jr. 4489
 DiMaggio, F. L. 5811
 DiMarco, J. N. 511
 Dimentberg, F. M. 7193
 Dimmock, N. A. 3450
 Dingwell, I. W. 3773
 Dini, D. 1787
 Dins, G. Dz. 4482
 Diprey, D. F. 1035
 DiPrima, R. C. 3405, 3652
 Dittmann, H. 5537
 Dityakin, Yu. F. 366
 Divita, S. 6446
 Dix, D. M. 6106
 Dixon, R. C. 1134
 Dixon, S. C. 1153, 2408
 4160
 Diziooglu, B. 5843
 Djubek, J. 2610
 Djuritch, S. 7480
 Dmitriev, A. A. 437
 Do, C. 7450
 Dobbins, R. A. 1193
 Dobrin, L. A. 3084
 Dobrovols'kaia, Z. N. 5267
 Dobson, M. D. 7345
 Dobson, P. S. 2481
 Dobzhinskii, B. N. 4935
 Dodd, R. A. 3849
 Dodge, F. T. 2338
 Dodge, L. 3936
 Dodonov, L. D. 2335
 Dogadkin, B. A. 4321
 Doganovskii, S. A. 3694
 Doggett, R. V., Jr. 4147
 Dohrmann, R. J. 747
 Dokuchaev, V. P. 4778
 Dolbin, N. I. 3823
 Dolgikh, M. A. 3273
 Dolgopolov, V. V. 1739
 Dolinskii, V. M. 3199
 Dollimore, J. 1307
 Dolman, K. 7347
 Dol'nikov, A. E. 2170
 Dombrowski, N. 6172, 7553
 Domin, G. 4067
 Domitz, S. 524
 Domshlak, Iu. I. 1022
 Donald, P. T. A. 1978
 Donaldson, C. duP. 2771
 3501
 Donat, E. V. 6173
 Donat, J. 1992
 Donath, E. 1318
 Dong, R. G. 1995
 Dong, S. B. 1995, 7029
 Doninger, J. E. 6226
 Donnell, L. H. 723
 Dorinson, A. 5488
 Dorland, W. D. 7547
 Dorokhov, M. M. 1555
 Doroshchuk, V. E. 3524
 5332
 Doroszkiewicz, R. S. 5777
 Dorrance, W. H. 4592
 Dorsch, R. G. 4655
 Dorsey, J. W. 1708
 Dosanjh, D. S. 1572, 2191
 Dougherty, D. E. 2903
 Douglas, J., Jr. 1253, 6003
 Douglas, R. A. 60
 Dove, R. C. 2687
 Devnar, S. A. 223
 Dow, N. F. 4497
 Dowell, E. 2409
 Dowell, E. H. 3573
 Dowrick, D. J. 6456, 6457
 Dowson, D. 6189
 Doyle, D. V. 4537, 6493
 Doyle, W. 1251
 Dragos, L. 5388, 5389, 6105
 Draijer, Ir. C. 5706
 Drake, J. H. 1127
 Drake, S. P. 2495
 Dranoff, J. S. 2306
 Drazin, P. G. 7573
 Dreher, R. C. 1163
 Dreicer, H. 6089
 Drell, H. 4102
 Drellishak, K. S. 2945
 Dresser, D. L. 4136
 Dressler, F. R. S. 405
 Dressler, R. F. 6823
 Dreyfus, J. 6004
 Dreyfus, S. E. 1875
 Drinkwater, F. J., III 1159
 Drischler, J. A. 363
 Driscoll, G. C., Jr. 2697
 Dronov, A. P. 4598
 Dropkin, D. 2900
 Drucker, D. 6964
 Drucker, D. C. 3163, 6405
 Drummond, W. E. 1734, 2950
 Druyanov, B. A. 3168
 Dryer, M. 5889
 Duban, P. 6615
 du Basty, W. M. 4141
 Dubin, M. 2474
 Dubois, B. 4495
 Dubov, A. S. 964, 4874
 Dubrov, E. F. 3523
 Duckenfield, M. J. 1928
 Duckstein, L. 6596
 Duddock, H. 728, 5776
 Dudley, J. C. 6690
 Dudrovskaya, O. N. 6713
 Dudukalenko, V. V. 5607
 Dudzisz, J. 5269
 Duesterhoff, W. C., Jr. 533
 Duff, R. E. 1064
 Duffie, J. A. 1040
 Duffield, N. A. 5649
 Duffy, J. 6128
 Dugdale, D. S. 727, 1145
 Dugundji, J. 1135, 1136
 6112
 Dukler, A. E. 6535, 6536
 Dul'nev, R. A. 3874
 Dul'nev, V. B. 2149
 Dumez, P. 6706
 Dunaev, P. F. 7187
 Dunavant, J. C. 2886
 Duncan, J. P. 62, 1516
 3838, 4452, 6305
 Duncan, R. C. 2972
 Dunchevskii, G. M. 3965
 Dundurs, J. 116, 3140
 4330
 Dunkin, J. W. 2468
 Dunkle, R. V. 4739
 Dunlap, R. 5938
 Dunn, M. G. 5242, 5936
 2956
 Dunsby, J. A. 2684
 Dupree, T. H. 4783
 Dupuchs, G. 3948
 Dupuy, R. 4724
 Duran, E. N. 5779
 Durand, J. L. 6761
 Durelli, A. J. 1151, 2084
 3860, 5102
 Durfee, R. L. 5321
 Durgar'yan, S. M. 1150, 1769
 Durgin, F. H. 1133
 Durney, B. 1715
 Dusa, D. J. 5268
 Dusek, H. M. 1940
 Dusev, I. I. 3327
 Duszek, M. 4323
 Dutheil, J. 138
 Dutta, S. 189, 2055
 2584, 2658
 Dvorak, J. 1306
 Dwyer, O. E. 5310
 D'yakonov, V. N. 5793
 Dyer, R. H. 1100
 Dykema, O. W. 3974
 Dykhovichnyi, A. A. 3315
 Dym, C. L. 3253
 Dymek, F. 683
 Dynerskii, Yu. I. 7220
 Dzhafarov, G. I. 6527
 Dzon-Mou, L. 2650
 Dzung, S. 2289
 Dzygadlo, Z. 1760, 6770

E

- Eagleson, P. S. 983, 6610
 Earnshaw, K. B. 6754
 Eason, G. 796, 1400
 East, L. F. 1631
 Eastman, D. W. 919, 1186
 Eaton, D. C. G. 2043
 Eaton, J. H. 1914
 Ebihara, K. 5571
 Ebner, H. 1379
 Eckart, C. 5185, 5885
 Eckel, K. 562, 3610
 Eckel, O. C. 3003
 Ecker, G. 3543
 Eckerman, J. 7235
 Eckert, E. R. G. 1013, 1066
 2318, 2872, 5327, 5330
 6038, 6045
 Eckman, D. P. 4246
 Eckstein, A. 150
 Edelbaum, T. N. 1178
 Edelen, D. G. B. 6198
 Edelman, R. B. 5469
 Edel'shtein, E. I. 1460
 Edelstein, W. S. 3164, 3824
 5377
 Edkie, R. G. 5377
 Edmondson, A. J. 3909
 Edmunds, D. E. 1100, 4573
 Edse, R. 4194
 Edwards, A. T. 2034
 Edwards, D. H. 4187
 Edwards, D. K. 2904, 3494
 Edwards, J. B. W. 3453, 5283
 Edwards, R. N. 6071
 Efimov, A. S. 7186
 Egerton, A. 461
 Eggers, K. 6856
 Eggwertz, S. 3913
 Egorov, A. I. 3710
 Egorov, B. N. 3486, 4025
 Egorov, I. A. 7184
 Egorov, K. E. 1434, 4307
 Egorov, N. N. 3312
 Egorov, V. I. 1449, 3580
 Ehlers, F. E. 2998, 3430
 Ehlers, J. G. 400, 1082
 2844
 Eibl, J. 6772
 Eichelberger, R. J. 6154
 Eichelbrenner, E. A. 5224
 Eichhorn, J.-L. 4205
 Eichhorn, R. 6663
 Eichler, E. 5747
 Eide, D. G. 7298
 Eidinov, R. M. 6232
 Eimer, C. 6458
 Einspruch, N. G. 6274
 Einstein, T. H. 2897
 Erlich, F. R. 4548
 Eisels, J. L. 2918, 7410
 Eisen, M. 5511
 Eisenstadt, R. 2680
 Eisley, J. G. 1756, 5052
 Ekstrom, R. E. 144
 el Baroudi, M. Y. 7071
 Elco, R. A. 1745
 Eldridge, O. C. 1722
 2368
 Elias, E. 5597
 Elin, R. M. 7166
 Elistratov, M. R. 5536
 Elizarov, D. P. 7153
 El'kin, A. I. 4814
 Elkind, J. I. 1269
 Ellington, D. 2185
 Ellis, A. T. 2058
 Ellis, F. S. 16
 Ellis, G. O. 3982
 Elms, R. V., Jr. 1180
 Elnan, O. R. S. 2437
 Elperin, I. T. 2863
 Elsen, W. G. 1403
 El'yasberg, P. E. 4830
 Elyutin, V. P. 7504
 Emanuel, G. 3062
 Ember, G. 6717
 Emel'yanov, S. V. 3108
 3688, 6229
 Emel'yanov, V. A. 1645
 Emery, A. F. 1676, 4720
 Emery, A. H., Jr. 1690, 2869
 Emikh, V. N. 3018
 Eminton, E. 359, 2515
 Emmerson, W. C. 3911
 Emmmons, D. L. 6052
 Emtsev, B. T. 1544
 Endo, K. 5331, 5770
 Endrenyi, A. 5998
 Engel, M. O. 898
 Engelmann, C. 4767
 Engelmann, F. 510
 Engelund, F. 5863
 England, A. H. 217
 Enig, J. W. 7405
 Enkenhus, K. R. 943, 4747
 Enns, M. 1286
 Epel'baum, M. B. 5795
 Eppler, R. 2218
 Epshtain, L. A. 3368

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

AUTHOR INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

- Epshtein, Yu. V. 2137, 2140
 Epstein, N. 2744
 Epstein, S. T. 3063
 Erbin, E. F. 242
 Erdelyi, A. 5506
 Erdelyi, F. 4555
 Erdelyi, I. 7356
 Erdogan, F. 67, 3845, 5765
 Erdogan, M. E. 6660
 Erdos, J. 7235
 Eremeev, G. M. 5133
 Eremina, E. G. 85
 Erickson, J. L. 1536, 2143
 Erickson, B. 4951
 Erickson, W. D. 6639, 7417
 Eringen, A. C. 625, 6829
 Erlikh, L. B. 3728
 Ermachenko, V. M. 2103
 Ermolov, I. N. 6440
 Ernst, K. 4647
 Ernst, W. D. 6335
 Erpenbeck, J. J. 6150
 Ershin, Sh. A. 4092
 Ershov, D. F. 2106
 Ershov, L. V. 1968
 Escande, L. 3976, 4551
 4557, 4656, 4658
 5164, 5173, 5174, 5264
 5858, 6192
 Escobal, P. R. 6139
 Essenhight, R. H. 467
 Essenwanger, O. M. 3634
 Esten, H. 1858
 Etkin, B. 6811
 Eubank, H. P. 532
 Ebanks, R. A. 1351
 Eustis, R. H. 892, 2882
 Evans, H. E. 1229
 Evans, H. L. 5929
 Evans, H. W. 4949
 Evans, J. S. 2396
 Evans, J. Y. G. 7344
 Evans, W. A. 4290
 Evans-Lutterodt, K. O. 2334
 Evdokimov, V. D. 3044
 Evensen, D. A. 3801, 5027
 Everhart, P. E. 6032
 Ewbank, T. 2605
 Ewing, M. 2659
 Ewing, W. O., Jr. 197
 Ezerskii, Yu. 6295
- F**
- Fabishevskii, A. V. 4536
 Fabrega, S. 6662
 Fabrikov, V. A. 4697
 Fabula, A. G. 1214
 Fadie, J. 5663
 Fail, R. A. 4695
 Fairchild, H. N. 6704
 Faizibaei, E. I. 5039
 Faizullov, F. S. 4597, 6561
 Falb, P. L. 3693
 Faletti, D. W. 2165
 Fal'kovskii, S. V. 7152
 Faller, A. J. 2215
 Faltus, F. 6301
 Fan, L.-T. 1028, 7353
 Fand, R. M. 5305, 5453
 Fang, J. S. 6318
 Fannelop, T. 5937
 Fara, H. D. 5869
 Farber, E. A. 2891
 Fargel, L. C. 57
 Farley, D. T., Jr. 508
- Farmer, E. G. 4676
 Farmer, I. W. 5718
 Farzan, B. Kh. 5470
 Fassell, W. M., Jr. 1083
 Fateeva, N. S. 4026, 4712
 Fattah, Q. N. 6609
 Faulkner, F. D. 4167
 Faupel, J. H. 5760
 Faure, J. 4000
 Favre, H. 3243
 Fay, J. A. 1670, 7382
 Fayard, M. 4317
 Faye-Petersen, R. 5889
 Fazekas, K. 6868
 Fedor, J. V. 1056, 1855
 Fedorov, A. F. 3085
 Fedorov, F. I. 3247
 Fedorov, M. F. 372
 Fedorov, V. I. 6190
 Fedorovich, L. A. 7153
 Fedoseev, V. A. 6069
 Fedosenko, H. P. 4666
 Fedotova, A. I. 3108
 Fehlberg, E. 6893
 Feilbach, W. H. 6435
 Feild, A. L., Jr. 6054
 Feinberg, R. M. 1670
 Feindt, E.-G. 2743
 Feix, M. 510, 1722, 2368
 Fejer, J. A. 6080, 6731
 Fel'dbaum, A. A. 2549
 Fel'dman, A. I. 5784
 Feldman, H. S. 7115
 Felgar, R. P. 3302
 Feller, W. V. 6627
 Felsenreger, Th. L. 7522
 Felton, L. P. 1459
 Fenech, H. 2302
 Feng, C. C. 629
 Feng, I.-M. 1222
 Fenimore, C. P. 4091
 Fenster, S. J. 5947
 Fenves, S. J. 2110
 Feodos'ev, V. I. 1239, 3784
 Ferguson, T. B. 7316
 Fernholz, H. 5239
 Fernlund, I. 620, 2631
 3229, 6368
 Ferrante, J. 2930
 Ferrara, A. T. 7042
 Ferrarese, G. 187, 2606
 6222
 Ferrari, C. 899
 Ferrer, L. 3860
 Ferri, A. 357, 2188
 Ferron, A. G. 4678
 Ferron, J. R. 6717
 Fesik, S. P. 711, 852
 Fessler, H. 123, 3191, 5780
 Fetterman, D. E. 5957
 Fettis, H. E. 6892
 Fetz, B. H. 3540
 Feuer, P. 2849
 Fevraleva, I. A. 4741
 Fialkow, M. N. 1368
 Fichera, G. 3727
 Fichter, W. B. 5671
 Fickett, W. 4089, 7528
 Fidone, I. 3551
 Fiebig, M. 5901
 Field, F. A. 3282, 3283
 Figarovskii, V. V. 2704
 Figge, I. E. 2968
 Figurovskii, V. I. 7280
 Filatov, A. N. 3804
 Filatov, F. I. 6265
 Filatov, L. Y. 1477
 Filho, F. V. 2111
- Filinov, M. V. 1818
 Filipczynski, L. 1414, 2650
 6827
 Filipovich, S. I. 3917
 Filippov, A. P. 4529
 Filippov, C. A. 7315
 Filippov, G. V. 5163
 Filippova, G. P. 398
 Filipovich, S. A. 3984
 Filler, L. 310, 1688
 Fillio, D. N. 6429
 Filionidov, A. M. 6439
 Fimple, W. R. 550, 4103
 Finagin, B. A. 5696
 Findley, W. N. 92, 6405
 Fink, M. P. 2814, 6599
 Finkel'stein, R. M. 7081
 Finn, W. D. L. 2062
 Finnie, I. 1095
 Firt, V. 1402
 Fischel, J. 1166
 Fischer, G. 148, 149
 Fisher, D. 564, 3624
 Fisher, D. D. 381
 Fisher, J. W. 2697
 Fisher, P. D. 7361
 Fiszdon, W. 896
 Fitch, A. H. 193
 Flaherty, R. J. 6687
 Flatley, T. W. 1229, 4898
 Flavin, J. N. 5063
 Fleischner, G. M. 650
 Fleishman, B. A. 3690
 Fleishman, N. P. 4504
 Fleishman, S. M. 82
 Fleming, D. P. 4737
 Fleming, J. D. 2461
 Fleming, J. F. 3320, 3828
 Fleming, R. O., Jr. 4104
 Fleming, R. W. 4104
 Fletcher, H. J. 6221
 Flimen, I. 4482
 Florence, A. L. 1762, 6775
 Florentin, J. J. 41, 665
 Florin, G. 2091
 Flower, J. W. 3378
 Flowett, J. W. 5785
 Flugge, S. 1231, 5498
 Flugge-Lotz, I. 44, 5935
 5937
 Flynn, D. R. 459
 Flynn, J. J., Jr. 370
 Focsa, V. 5340
 Fodor, Gy. 5557
 Fohrman, M. J. 2772
 Folias, E. S. 119
 Folkers, J. S. 2715
 Folkierski, A. 4786
 Fornier, P. G. 2083
 Forsching, H. 5673
 Forsman, N. A. 713
 Forste, J. 5178
 Forster, K. 2439
 Fortier, A. 2752, 3402
 Fossard, A. 4276, 5559
 Foster, R. M. 4062
 Foster-Pegg, R. W. 2924
- Fournier, M. E. 2058
 Fournier, P. G. 387
 Fournier, R. H. 6149
 Fowler, H. S. 3985
 Fox, A. 7160
 Fox, A. G. 1796
 Fox, H. 933, 2795
 Fox, J. 5236, 7264
 Fox, M. G. 3636
 Fox, N. 6783
 Fox, R. L. 4390
 Fradlin, B. N. 738, 739
 Fraeijs de Veubeke, B. 971
 Fraidenreich, N. 4125
 Franciosi, V. 5025
 Francis, A. J. 5614
 Francis, L. C. 922, 923
 Frandsen, A. G. 6461
 Franeck, H.-J. 2583
 Frankfurt, M. O. 1640
 Frank-Kamenetskii, D. A. 6739
 Franklin, G. F. 37
 Franz, G. 5827
 Franzini, J. B. 7559
 Fraser, K. F. 6207
 Fraser, R. P. 6172
 Frazier, M. 2552
 Frea, W. J. 6692
 Freche, J. C. 7499
 Frederking, T. H. K. 1687
 Fredricks, R. W. 5391
 Freed, N. H. 1019
 Freedman, A. 4851
 Freedman, S. I. 2225
 Freeman, J. C. 5958
 Freeman, J. W. 239, 4437
 Freeman, N. C. 6555
 Freiberg, S. 20
 Freidin, A. S. 5153
 French, F. W. 6968
 French, K. E. 3592
 French, M. J. 5688
 Frenkel, I. N. 3917
 Frenkel, W. Y. 2893
 Frenzen, P. 2747
 Freudenstein, F. 2130, 2131, 2722
 Freudenthal, A. M. 1370
 3238, 6462, 6785
 Freynik, H. S., Jr. 5719
 Freytag, R. W. 4916
 Fridman, L. I. 5410
 Fridman, Ya. B. 3861, 4154
 Fridsma, G. 1216
 Friedlander, S. K. 4746
 Friedman, A. 3070
 Friedman, M. B. 4027
 Friedman, M. P. 3387
 Friedman, R. 1091
 Friedrich, E. 3673
 Frieman, E. 6084
 Frieman, E. A. 6093
 Friichtenicht, J. F. 580
 Frik, M. 1285
 Frisch, H. P. 6991
 Frisch, J. 2081
 Frisch-Fay, R. 765
 Frischmann, W. W. 2117, 2118
 Fritch, D. J. 3644, 3912
 7102
 Fritsch, C. A. 2316
 Fritz, W. A., Jr. 3468
 Frohlich, D. 4928
 Frohlich, O. K. 7111
 Frolov, K. V. 1391
 Frolov, V. G. 6475
 Frost, M. D. 5278
 Frost, P. D. 4492
 Frost, T. H. 7332

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

AUTHOR INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

51

- Frost, V. A. 2919
 Fruchtman, I. 1658
 Fruman, D. 4881
 Fry, D. E. 5424
 Fry, Z. B. 808
 Fryazinova, I. L. 5861
 Fu, C. C. 2040
 Fuchs, B. A. 6883
 Fuchs, H. 5544
 Fuchs, O. P. 2991
 Fuchssteiner, W. 7012
 Fucks, W. 7590
 Fuhs, A. E. 1800, 6764, 6765
 Fujii, K. 2643, 3099, 6477
 Fujii, S. 1933
 Fujii, T. 5308
 Fujimori, N. 6129
 Fukada, E. 1965
 Fuks, G. I. 7167
 Fukuda, M. 2451
 Fukuyo, H. 3234
 Fuller, A. T. 659, 1278, 2529
 Fuller, D. E. 958, 6149, 6603
 Fuller, F. B. 6043
 Fuller, R. W. 4239
 Fumagalli, E. 19
 Fung, K. 2961
 Fung, Y. C. 2015
 Funk, J. E. 7208
 Funk, J. P. 6682
 Funke, V. F. 6433
 Furduev, A. V. 6166
 Furey, M. J. 615
 Furth, H. P. 1725
 Fuzisawa, T. 3016
- G**
- Gabasov, R. 6911
 Gabr, M. I. 5183
 Gachechiladze, G. A. 3631
 Gadd, G. E. 1161, 3357
 Gadeberg, B. L. 5434
 Gadzhiev, T. N. 4413
 Gafarian, A. V. 3668, 3669
 Gaidosch, H. 6143
 Gaillard, P. 6606
 Gainer, P. A. 6248
 Gair, F. C. 3827
 Gaither, O. D. 2164
 Galadzhii, F. M. 7535
 Galambos, T. V. 5661, 7042
 Galeev, A. A. 3547, 7463
 Galfayan, P. O. 1335
 Galimov, N. K. 132, 7020
 Galipeau, J. 6588
 Gallagher, A. P. 6568
 Gallagher, R. H. 1863, 5028, 6323
 Gallaher, W. H. 297
 Gallea, R. 5745
 Galloway, T. R. 5314
 Galman, B. A. 1798
 Galos, M. 6970
 Gal'perin, E. A. 6904
 Gal'perin, M. Ya. 5146
 Galvin, C. J., Jr. 6610
 Gamayunov, N. I. 6175
 Gambhir, R. S. 1004, 3471
 3475, 4017
 Ganapol'skii, E. M. 2453
 Gandel'man, G. M. 2103
 Gandhi, S. N. 860, 861
 Ganeeva, M. S. 5404
 Gangulee, A. 7125
 Ganlev, N. S. 5000
 Garber, A. M. 2417
 Garber, E. A. 4153
- Garber, E. D. 3082
 Garber, R. I. 4473, 6442
 Garcia, F. S. 2718
 Gardner, G. O. 2793
 Gardner, L. R. T. 699
 Gardner, W. N. 4184
 Garf, M. E. 5775, 6434
 Garfinkel, B. 7286
 Garg, R. D. 5923
 Garkusha, A. V. 372
 Garner, H. C. 2822, 5254
 Garren, J. F., Jr. 3585
 Garren, K. R. 6248
 Gartner, W. B. 4816
 Gartshore, I. S. 897
 Gascoigne, H. E. 7209
 Gatzek, L. E. 1859
 Gatzke, H. 4668
 Gaudet, L. 6623
 Gaukroger, D. R. 1753, 5281
 Gaulard, M.-L. 5458
 Gauvin, W. H. 1677
 Gauza, H. J. 3613
 Gavalas, G. R. 888
 Gavan, F. M. 4231
 Gavrilov, Yu. V. 7077
 Gavrilova, E. A. 5773
 Gavrilovic, M. 42
 Gay, B. 458
 Gaydon, A. G. 4093
 Gayle, J. B. 7531
 Geankoplis, C. J. 7560
 Gebel, C. 4205
 Gebhart, B. 1671, 6022
 6657
 Geguzin, Ya. E. 709
 Gehring, J. W. 6154
 Geiger, D. 5869
 Geiger, G. 7067
 Geise, G. 2133
 Geiss, G. 4242, 4903
 Gel'berg, B. T. 3885
 Gelder, T. F. 2739
 Gel'fenvein, L. G. 6703
 Gellatly, R. A. 5028, 6323
 Geller, Z. I. 2753
 Gel'man, I. V. 3084
 Gel'mhol'ts, N. F. 5754
 Geminov, V. N. 5108
 Gendzekhadze, T. N. 1511
 Generalov, N. A. 5317
 Genin, J. 2628
 George, A. R. 1016
 George, D. L. 2414
 Gera, J. 7282
 Gerard, G. 763, 1468, 2003
 Gerardo, J. B. 2390
 Gerber, C.-S. 4858
 Gerber, N. 2803
 Gerberich, W. 5099
 Gerhards, C. C. 5807
 Gericke, O. R. 844
 Germain, J.-P. 5258, 5262
 Germain, P. 5206
 German, E. N. 7157
 Germeles, A.-E. 7424
 Gerold, W. 7181
 Geronioms, Ya. L. 1519
 Geropp, D. 938
 Gerrard, J. H. 318, 2780
 Gerretsen, J. C. H. 4238
 Gerritsen, F. 4216
 Gerritsma, J. 1840, 3641
 Gersch, H. A. 5990
 Gersch, W. 1915
 Gershkovich, B. M. 6441
 Gershstein, S. M. 6929
 Gershuni, G. Z. 2313, 4734
 Gerstein, M. 2913
 Gersten, R. H. 5435
- Gerstle, K. H. 2661
 Gertsbakh, I. B. 2538
 Getsov, L. B. 6264, 6432
 Getzler, Z. 867
 Geyling, F. T. 4171
 Ghareeb, N. 6112
 Gheorghita, St. I. 2466
 Gherardelli, L. 5471
 Ghez, R. 5583
 Ghia, V. V. 3532
 Ghori, Q. K. 28
 Ghosal, A. 5513
 Ghosh, B. 6949
 Ghosh, R. 6362
 Ghosh, S. N. 3971
 Ghosh, T. 1373, 2578, 3779
 Giacaglia, G. E. O. 7512
 Giambelli, G. 1077
 Giangreco, E. 4360
 Giatintov, E. V. 2085
 Giavotto, V. 2916, 4367
 Gibb, O. L. 6764
 Gibbons, J. E. 354
 Gibson, C. H. 347, 356
 Gibson, D. M. 4621
 Gibson, G. 2401
 Gibson, J. E. 1270, 6905
 Gibson, R. E. 204
 Gibson, W. L. 3975
 Gideon, D. N. 3852
 Gidet, R. R. 2836
 Giencke, E. 2113
 Gierasch, P. J. 6760
 Gieseking, D. 6245
 Gieseckus, H. 1528
 Giesen, H. 7360
 Giesing, J. P. 6618
 Gil, H. 4311
 Gil'bershtein, P. G. 6385
 Gilbert, E. G. 5539
 Gil'bo, E. P. 5565
 Gildor, J. 1666, 1699
 Gill, A. 3094
 Gill, A. E. 1574, 1575
 Gill, H. L. 206
 Gill, S. S. 5830
 Gill, W. N. 2305
 Gille, J.-C. 5551
 Gillespie, J. W. 4983
 Gillet, E. 3881
 Gillet, M. 3881
 Gilmore, A. 963
 Gindin, I. A. 4473, 6442
 7506
 Gindis, A. P. 4430
 Ginevskii, A. S. 2257
 Ginsberg, F. 410
 Ginsburg, T. 1886, 4613
 Gintsburg, B. Ya. 4528
 Gintsburg, Ya. S. 705
 Ginzburg, I. P. 2147
 Ginzburg, N. I. 4813
 Ginzel, I. 2181
 Gispert, H.-G. 6143
 Githinji, P. M. 2898
 Giulianetti, D. J. 2841
 Giutronich, J. E. 6684
 Giveen, S. M. 1249
 Gladwell, G. M. L. 3818
 Glansdorff, P. 1586
 Glanvill, D. W. 840
 Glass, I. I. 2805, 3393
 Glassman, A. J. 5289, 6542
 6686, 7523
 Glasson, A. R. 4056
 Glazunova, N. T. 2561, 5634
 Glebova, L. I. 6011
 Glenn, D. C. 622
 Glikina, M. S. 6302
 Glikman, L. A. 3864, 3892
- Glinka, M. S. 1977
 Glivenko, E. V. 601
 Glockner, P. 3895
 Glotov, V. P. 4198
 Glowacki, W. J. 4711
 Gluckert, F. A. 6700
 Glucklich, J. 5764
 Glukhov, N. A. 6488
 Glushko, M. F. 2128
 Gnanadoss, A. A. 7588
 Gnani, F. 3449
 Gnuni, V. Ts. 772, 4382
 Gobetz, F. W. 2428
 Goble, G. G. 7015
 Goda, Y. 968, 1820
 Godden, W. G. 1978
 Godet, M. 5495
 Godet, M. R. 623
 Godunov, S. K. 5861, 6545
 Godzhaev, V. M. 7506
 Goel, S. 1531
 Goetz, R. C. 6111
 Goetzl, C. G. 4431
 Goffi, L. 3148
 Gogolev, V. M. 190, 7104
 Gogonea, S. 7227
 Go-Khua, Ch. 6185
 Golant, V. E. 3555
 Gol'dbinder, A. I. 6065
 Gold, R. R. 5368, 7425
 Goldberg, J. E. 2122, 2607
 7103
 Goldberg, M. A. 1352
 Goldbery, T. J. 5933
 Goldburg, A. 5201
 Gol'denberg, M. L. 7336
 Gol'denberg, S. A. 7407
 Gol'denveizer, A. L. 5635
 Gol'dfarb, V. M. 4308
 Goldner, K. 6234
 Goldsberry, T. G. 1632
 Goldshtain, R. V. 7142
 Gol'dshtik, M. A. 6518
 Goldsmith, R. H. 3586
 Goldsmith, W. 2447, 3245
 Goldstein, A. W. 526, 2957
 Goldstein, L. 2390
 Goldstone, L. 7320
 Goldwyn, R. M. 4931
 Golego, N. L. 4233
 Golesworthy, G. T. 2748
 Golladay, R. L. 447
 Gol'man, P. B. 6989
 Golodaev, B. G. 5799
 Golovin, Z. M. 266
 Golub, V. K. 1987
 Golubev, A. S. 3867
 Goncharenko, V. M. 143
 2613, 4395
 Goncharevich, I. F. 1410
 Gonor, A. L. 2764, 5610
 Gontier, G. 4642
 Good, R. C., Jr. 2403
 Good, R. J. 4841
 Goodier, J. N. 1762, 6775
 7074
 Goodman, L. E. 1432, 4257
 4258, 4259
 Gopalacharyulu, S. 3765
 Gopala Krishnayya, A. V.
 6402
 Gorbatyi, Yu. E. 5795
 Gorbunov, G. I. 4765
 Gorbunova, N. I. 3480
 Gorczyński, W. 1958
 Gordienko, L. K. 5791
 Gordon, S. 400, 1001
 Gordon, S. A. 6546
 Gore, R. W. 6539
 Gorin, V. S. 5755

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

AUTHOR INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

- | | | | | | | | | | | | | |
|-----------------|---------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Review Numbers: | 1-427 | 628-1230 | 1231-1860 | 1861-2498 | 2499-3051 | 3052-3655 | 3656-4237 | 4238-4899 | 4900-5497 | 5498-6192 | 6193-6872 | 6873-7605 |
| Issue: | January | February | March | April | May | June | July | August | September | October | November | December |
- Gor'kov, L. P. 2197
 Gornov, V. N. 5816
 Goroshko, O. A. 1395
 Gorski, S. B. 4763
 Gorski, V. G. 7009
 Goschy, B. 6971
 Goseki, U. 5493
 Gosse, J. 5162, 5335, 5975
 Gosset, J. 4767
 Goto, M. 7222
 Gottenberg, W. G. 6953, 6961
 Gotusso, L. 431
 Gough, P. 7347
 Gough, V. E. 232
 Gouillard, R. 2325, 6040
 Gould, D. G. 5422
 Gould, I. H. 16
 Gouliis, D. A. 1196
 Gourdine, M. C. 6761
 Gouse, S. W., Jr. 891
 Govind Rao, N. S. 2151
 Goyal, S. C. 1328
 Graber, B. C. 3504
 Grabiel, F. 7352
 Grabovskii, A. M. 2262
 Grach, S. A. 5001, 5002
 Gradowczyk, M. H. 736, 1361
 Grafton, P. E. 1369
 Graham, A. 1963
 Graham, R. W. 1091
 Gramberg, G. 2285
 Granovskii, V. I. 4716
 Granovskii, V. L. 5385
 Grant, E. H., Jr. 2350
 Grant, F. C. J183, 2884
 Graesemann, H. J. 4427
 Grassmann, P. 7355
 Gratian, J. W. 4916
 Graves, R. A., Jr. 6701
 Gravina, P. B. J. 2591
 Gray, K. B. 2541
 Gray, P. 2914, 4761
 Gray, V. H. 2909
 Grdina, Yu. V. 5115
 Grebenik, V. M. 3288
 Grebenikov, F. A. 6147
 Grebenkov, E. A. 4829
 Grebenik, V. S. 6440
 Grechikhin, L. I. 4137
 Greco, R. V. 1711
 Green, A. E. 217, 3127
 3923, 6322, 6423, 6498
 6499, 6500, 6502, 6966
 6967
 Green, D. M. 1269
 Green, H. S. 5286
 Green, W. A. 819, 7034
 7097
 Greene, A. H. 4170
 Greenkorn, R. A. 6897
 Greenshields, D. H. 406
 Greenspan, D. 4249
 Greenspan, H. P. 334, 4572
 Greenspon, J. E. 2027, 4368
 Greenstreet, B. L. 2092
 Greenwood, G. H. 2842
 Gregory, N. 2815
 Gregory, R. T. 6879
 Gregory, R. W. 771
 Greguss, P. 2359
 Greif, R. 2677
 Greifinger, C. 2990
 Grellier, Y.-M. 5986
 Grenshaw, J. W. 548
 Gretz, R. W. 6138
 Grewal, M. S. 917
 Grewolls, H. J. 6223
 Gribben, R. J. 4624
 Gribkova, S. I. 1590, 5917
- Griff, A. L. 4420
 Griffin, D. S. 6258
 Griffith, B. J. 4052
 Griffiths, N. 4192
 Griffiths, R. T. 343
 Grigg, H. R. 1622
 Grigolyuk, E. I. 3771, 4349
 5016, 5018
 Grigor'ev, A. K. 6979
 Grigor'ev, O. D. 3747, 4977
 Grigorovich, V. M. 5599
 Grigoryan, S. S. 591, 990
 Grigull, U. 5285, 5992
 Grimaud, J. E. 5980
 Grimitlin, M. I. 2173
 Grinberg, S. M. 4379
 Grindell, A. G. 884
 Groden, C. M. 4733
 Groman, M. B. 4523
 Gromov, V. G. 5585
 Grosh, R. J. 1613, 2316
 Grosjean, C. 4681
 Gross, B. 6256, 6419
 Gross, C. 6203
 Gross, D. 2912
 Gross-Gronomski, L. 1061
 Grossman, R. L. 4888
 Grossman, W. B. 735
 Grove, A. S. 3369
 Grover, H. 7132
 Groves, R. T. 3613
 Grubin, C. 3678, 5426
 Gruni, V. Ts. 3791
 Gruning, K. 4427
 Gruzko, G. S. 7062
 Grycz, J. 4300, 6779
 Gubanov, A. I. 2393
 Gubarev, A. V. 3432, 6763
 Gubbins, D. G. 5390
 Gubin, F. F. 7147
 Guderley, K. G. 6547
 Guell, D. L. 2695
 Guenoche, H. 2280
 Guenot, R. 2859
 Guentert, D. C. 483
 Guernsey, R. L. 1735, 6744
 Guest, S. H. 6074
 Guev, A. A. 4566
 Gugan, K. 461
 Guiasu, S. 3659
 Guignabodet, J. J. G. 639
 Guillot, M. 3021, 5709
 Guiraud, J.-P. 2286, 3943
 5206, 5905
 Guiton, P. 1552
 Gukasov, N. A. 5949
 Gul, V. E. 85, 4321
 Gulin, E. P. 6159
 Gulyaev, V. N. 4968
 Gumbel, E. F. 6885
 Gumbel, E. J. 5093
 Gumz, W. 4087
 Gunckel, T. L., II. 37
 Gundersen, R. M. 1736, 2934
 3562, 6757
 Gunn, K. W. 2087
 Gunter, Ju. S. 1499
 Guo Zhong-Heng 5701, 6261
 Gupalo, Yu. P. 279
 Gupchup, V. N. 2119
 Gupta, A. S. 424, 3550
 Gupta, B. K. 7586
- Gupta, D. P. 2562
 Gupta, I. N. 4863
 Gupta, K. N. 256, 5711
 Gupta, M. L. 7367
 Gupta, R. C. 5856
 Gupta, S. C. 2865, 4925
 Gura, G. S. 7581
 Gurevich, A. V. 5374
 Gurevich, G. I. 4392
 Gurevich, M. A. 473
 Gurevich, M. I. 3927
 Gurevich, S. E. 1329, 3286
 Gurevich, V. L. 7545
 Gurland, J. 4435, 7125
 Gurov, A. F. 3240
 Gurtin, M. E. 635, 797, 3164
 3723, 3824, 3825, 4404
 6280
 Gurvich, I. I. 6385
 Guseinov, A. I. 295
 Guseinov, F. G. 4413
 Gusenkov, A. P. 7496
 Gus'kov, Iu. P. 5574
 Gustavsson, I. 2630
 Guthrie, A. 3915
 Gutkin, T. I. 7452
 Gutkowski, W. 3207
 Gutowski, R. 6653
 Guttman, W. H. 3335
 Gutzwiler, M. C. 1311
 Guzeev, E. A. 2704
 Gveladze, Yu. S. 5396
 Gvozdeva, L. G. J188, 4846
 Gvoznov, N. N. 4861
 Gyarmathy, G. 392, 2341
 Gyorgak, C. A. 2102
- H
- Haas, A. 3489
 Habel, A. 3206
 Haberman, W. L. 285, 3446
 Habib, P. 5749, 5751
 Hacker, T. 2820
 Hackeschmidt, M. 22, 7304
 Hackman, L. E. 5835
 Haddow, J. B. 5084
 Hadley, W. A. 6244
 Hady, W. F. 2484, 6866
 Hagedorn, A. R. 5182
 Hahn, J. F. 6630
 Haigh, R. E. 137
 Hailey, W. C. 7507
 Hain, K. 7191
 Haines, A. B. 5955
 Hains, F. D. 6582
 Halanay, A. 4930
 Halaunbrenner, J. 3648
 Halbach, K. 1717
 Haldeman, C. W. 7456
 Hale, F. J. 5354
 Hale, J. K. 5507
 Halfpenny, P. F. 7418
 Hall, D. F. 6745
 Hall, G. W. 267
 Hall, L. S. 6749
 Hall, M. G. 2158
 Hall, R. 5400, 6096
 Hall, W. J. 2675, 4442
 Haller, H. C. 2895, 6056
 Halliwell, A. R. 970
 Ham, I. 2075, 2076
 Hama, F. R. 341
 Hamada, M. 3184, 5049
 Hamaker, F. M. 3510
 Hameen-Antila, K. A. 1685
 Hamel, B. B. 6566
- Hamill, P. A. 969
 Hamill, T. D. 4041
 Hamilton, G. M. 3836
 Hamilton, R. C. 489
 Hamilton, W. S. 7223
 Hammer, A. 6143
 Hammitt, F. G. 842, 2154
 7214
 Hammond, A. D. 962
 Hammond, P. H. 1928
 Hampson, A. J. K. 2112
 Hamza, M. 4277
 Han, K.-W. 39
 Hanagud, S. 6381
 Hancock, J. O. 3540
 Handelman, G. H. 1377
 Handler, E. H. 1168
 Hanel, R. A. 1182
 Hanin, M. 902, 1752
 Hankey, W. L., Jr. 1041
 Hanks, R. W. 940, 3391
 3951
 Hanna, J. W. 197
 Hanna, N. O. M. 6995
 Hannah, M. E. 2978
 Hannes, H. 7402
 Hanratty, T. J. 1063, 1628
 Hansen, R. A. 6161
 Hansen, R. J. 1418, 6424
 Hansen, R. S. 3429
 Hansen, T. C. 4313
 Hanson, J. N. 4827
 Hanson, P. W. 1142, 4147
 Hanssens, P. 5003
 Hanuska, A. 4332, 6997
 Hara, H. H. 6900
 Hara, T. 5322
 Harban, A. A. 3996
 Harden, D. G. 6021
 Hardenbergh, D. E. 1258
 3909
 Hardison, R. L. 7550
 Hardy, K. R. 4202
 Hardy, R. C. 2273
 Harima, H. 5157
 Harkauli, A. N. 1502
 Harker, K. J. 7421
 Harkly, S. A. 5183
 Harkrider, D. G. 6380
 Harleman, D. R. F. 1196
 1204
 Harley, E. E. 3446
 Harlin, S. H. 4100
 Harlow, F. H. 1064, 5360
 Harmathy, T. Z. 3496
 Harmon, M. B. 1366
 Harned, J. L. 5576
 Harper, D. J. 1647
 Harper, D. L. 6435
 Harper, J. F. 4574
 Harrell, S. 2086
 Harries, W. L. 2958, 5361
 5362, 6107
 Harrington, W. J. 6813
 Harris, E. L. 2369
 Harris, J. 2726, 3340
 Harris, J. E. 6246
 Harris, J. N. 2461
 Harris, J. T. 638
 Harris, R. V., Jr. 5232
 Harris, S. M. 4239
 Harris, T. A. 1227
 Harrison, A. J. M. 2271
 Harrison, B. K. 6206
 Harrison, E. F. 2279
 Harrison, H. B. 1345
 Harrison, Z. L. 3670
 Harry, D. T. 7409
 Harry, D. P., III 2800
 Harry, E. C. 3993

- Hart, R. W. 583, 584, 1805
 3001, 5450, 6066
- Hartenstein, R. G. 1403
- Hartman, A. 2088, 3289
- Hartnett, J. P. 444
- Hartunian, R. A. 1601, 2836
- Harty, F. R., Jr. 6543
- Hartz, B. J. 787
- Harvey, C. A. 1263
- Harvey, J. K. 5244
- Harvey, J. W. 1998, 6337
- Harvey, R. L. 6831
- Harvey, W. D. 6627
- Harwell, K. E. 7241
- Hasegawa, S. 1042
- Haseltine, W. R. 1259, 2420
 4849
- Hashimoto, S. 2135
- Hashin, Z. 4497, 5600
 6445
- Hasinger, S. H. 1634
- Haskell, N. A. 1417
- Hassan, H. A. 3396, 6094
- Hassan, N. A. 7559
- Hasselman, D. P. H. 2329
- Haszpra, O. 5275
- Hatano, H. 658
- Hatch, H. G., Jr. 7524
- Hatch, M. R. 442
- Hatta, K. 4145
- Hatton, A. P. 6018
- Hauck, G. F. 5660, 6336
- Haupt, G. 6223
- Hausner, H. H. 1473
- Haussler, R. W. 7037
- Haviland, R. P. 1789
- Havill, J. R. 6251
- Hawk, N. E. 6831
- Hay, J. 4693
- Hayama, S. 7391
- Hayashi, K. 1513, 1514
- Hayashi, S. 1110, 1534
 6357
- Hayashi, T. 6859, 7052
- Hayes, C. 903
- Hayes, M. 2052
- Hayes, R. J. 7363
- Hayes, W. D. 2771
- Haymann, P. 5326
- Hays, D. F. 613, 4702
- Heard, W. L., Jr. 6781
- Hearn, D. P. 7566
- Heartz, R. A. 6901
- Heaslet, M. A. 6043
- Heath, A. R., Jr. 488
- Hedner, G. 3162
- Heebink, T. B. 3905
- Heems, M. 4955
- Heer, E. 71
- Heger, F. J. 6453
- Heidebrecht, A. C. 3828
- Heighway, J. E. 2957
- Heimel, S. 400
- Heinbockel, J. H. 156, 1261
- Heineman, J. B. 527
- Heinrich, G. 2465
- Heinrich, H.-G. 2829
- Heins, W. 1779
- Heise, O. 3790
- Heiser, W. H. 5380
- Hellan, K. 1984
- Heller, B. 5675
- Heller, I. 6200
- Helliwell, J. B. 3564
- Hellstrom, B. 3026
- Helmer, J. C. 1718
- Helms, B. F. 4838
- Hemp, G. W. 7061
- Henderson, A., Jr. 7238
- Henderson, D. B. 6760
- Henderson, F. M. 3352
 5166, 7555
- Henderson, J. M. 1157
- Henderson, L. F. 7240
- Hendricks, C. D. 264
- Hendricks, C. D., Jr. 2390
- Hendricks, R. C. 1091
- Henkin, A. 5118
- Henney, A. 2626, 5717
- Henning, K. E. 2984
- Henning, A. B. 3461
- Henrici, P. 2
- Henry, C. J. 1215, 6860
- Henry, J. P. 3616
- Henry, L. A. 3238
- Henry, M. 4857
- Henshaw, D. H. 5420
- Herber, K.-H. 115
- Hermance, C. E. 1702, 2915
- Herning, F. 877
- Herrera, I. 3825, 6280
- Herreshoff, J. B. 4142
- Herrey, E. M. J. 2441
- Herrmann, G. 147, 1763
- Herrmann, L. R. 5580, 6306
- Hersch, J. 774, 6197
- Hersch, M. 2922
- Hersh, A. S. 353
- Herzog, B. 2637
- Hesokawa, Y. 4743
- Hess, T. E. 2126
- Hess, W. N. 7529, 7579
- Hetherington, R. 7034
- Hetnarski, R. B. 6774
- Heuckroth, L. E. 4847
- Heumann, H. 621, 5968
- Heusinkveld, M. 7105
- Hewes, D. E. 3081
- Heyman, R. J. 5947
- Hickey, C. F., Jr. 7165
- Hickey, D. H. 3586
- Hickling, R. 5963
- Hicks, R. M. 3412
- Hidaka, K. 1203, 2470, 4217
- Hidalgo, H. 1380, 2354
- Hidy, G. M. 4746
- Hieke, M. 1982, 5625
- Hiester, N. K. 6212
- Higashii, Y. 2600
- Higdon, A. 2521
- Higgins, C. C. 4817
- Hijman, R. 4629
- Hiki, T. 3989
- Hiland, J. R. 4101
- Hilbrand, H. C. 3882
- Hill, J. H. 3800
- Hill, P. G. 3443, 4076
- Hill, R. 74, 3835, 5119
 6934
- Hiller, H. 1177, 2410
- Hiller, K. H. 4550
- Hillier, M. J. 816, 817, 820
 1569, 3170
- Hilpert, H. 5847
- Hilton, D. A. 1810, 5463
- Hilscher, R. 2091
- Himmelblau, D. M. 1691
- Hines, W. J. 7354
- Hino, M. 2457
- Hinson, W. F. 1896
- Hinz, H. K. 1785
- Hirano, Y. 7052
- Hirasawa, T. 7094
- Hirata, G. 4408
- Hirata, M. 4630
- Hirsch, R. 5224
- Hirsch, T. J. 3832
- Hirschberg, J. G. 1740, 7465
- Hirschfelder, J. O. 3063
- Hirt, C. W. 1064
- Hitch, H. P. Y. 7471
- Hitomi, K. 2075, 2076
- Hlavacek, I. 3769, 4363
- Ho, C. Y. 1562, 2002, 5307
- Ho, D. V. 2776
- Ho, H. T. 281
- Ho, H.-W. 3926
- Hoadley, P. G. 858
- Hoang, H. T. 4341
- Hobbs, N. B. 2065
- Hochgesand, G. 1058
- Hockenhull, B. S. 847
- Hocking, L. M. 5877
- Hockney, R. W. 5502
- Hoddinott, J. R. 66
- Hodge, P. G., Jr. 3314, 6404
 6954, 6969
- Hodgins, J. W. 4748
- Hodgkins, W. R. 699, 7490
- Hoehne, J. C. 3519
- Hoek, E. 2686
- Hofer, G. 3310
- Hoff, N. J. 7056
- Hoffman, D. T., Jr. 1690
- Hoffman, H. W. 7388
- Hoffman, O. 2009
- Hoffman, S. 1896, 5433
- Hoffmann, E. R. 1620
- Hofsmoer, D. J. 3069
- Hokanson, J. L. 1312
- Hokim, D. 5326
- Holden, F. C. 3852
- Holden, K. J. 5247
- Holeski, D. E. 977, 7313
- Holister, G. S. 3326
- Hollander, A. 1553
- Hollands, K. G. T. 2326
- Holleman, E. C. 3713
- Holley, M. J. 5033
- Holling, J. 3543
- Holling, K. 822, 4422
- Hollis, W. S. 2078
- Holloway, P. F. 3966
- Holloway, W. G. 2834
- Holmes, M. 854, 860, 861
- Holmes, R. 1221
- Holms, A. G. 3256
- Holmstrom, I. 4871
- Holt, M. 298, 6552, 6769
- Holzer, F. 7105
- Holzhauser, C. A. 3584
- Hom, K. 6329, 6469
- Homma, T. 5265
- Hondros, G. 3307
- Honeycombe, R. W. K. 2099
- Honnell, P. M. 5518
- Hook, J. F. 3827, 4396
- Hooke, W. M. 2380
- Hooks, L. E. 1041, 2351
- Hooley, R. F. 5672
- Hooper, G. T. J. 7034
- Hooper, P. C. 7553
- Hoopes, J. A. 1196
- Hopenfeld, J. 4068
- Hopenfeld, Y. 2952, 3277
- Hopkin, H. R. 5424
- Hopkins, E. J. 3412
- Hoppe, J. 6468
- Hopper, D. 3636
- Hoppmann, W. H., II. 786
 4372, 5693, 6370
- Horak, Z. 195
- Horaty, Yu. P. 4666
- Horbatenko, M. F. 5376
- Hord, W. H., Jr. 3462
- Horgan, J. J. 5918
- Hori, E.-I. 342
- Hori, G.-I. 4179
- Horie, C. 4675
- Horlock, J. H. 972, 976
- Horn, G. 183
- Hornbeck, R. W. 4631
- Horne, M. R. 4325, 5753
- Horne, W. B. 1163
- Horner, J. M. 1176
- Hornig, D. F. 2775, 3563
- Hornung, H. G. 1609
- Hornik, L. 4555
- Horstman, C. C. 1578
- Horton, C. W. 1632
- Horton, M. D. 472, 2918
 6067, 6720
- Horton, W. H. 1901, 2277
- Horvath, Cs. 7175
- Horvay, G. 1014, 6000
- Horvay, J. B. 5290
- Hoshi, M. 5265
- Hoshino, J. 234, 7163
- Hoskin, B. C. 2703
- Hosking, A. D. 4532
- Hossdorf, H. 5097
- Hotta, K. 4256
- Hottel, H. C. 7417
- Hottner, Th. 1598
- Houghton, G. 1667, 2901
- House, C. M. 1789
- Housner, G. W. 3239
- Howard, C. D. D. 3009
- Howard, C. P. 6708
- Howard, F. G. 6670
- Howard, J. C. 4174
- Howard, L. N. 1559, 4572
 6025, 7573
- Howard, P. W. 5313
- Howe, D. 6790
- Howe, J. T. 572, 2787, 5316
- Howe, M. R. 3031
- Howell, D. T. 6710
- Howell, J. R. 432, 436, 7384
- Howell, R. R. 6668
- Howell, W. E. 1897
- Howell, W. T. 1635
- Hoyle, R. 5299
- Hrava, V. 2672
- HRbek, J. 7204
- Hribar, J. A. 3270
- Hrubeczy, H. F. 2211
- Hrycak, P. 2717, 2892, 3495
 3508, 5444, 6643
- Hsia, H. T.-S. 3617
- Hsieh, H. C. 3114, 3687
- Hsieh, T. 4554
- Hsu, B. 5715
- Hsu, C. S. 769
- Hsu, C.-T. 5902
- Hsu, H.-C. 2736
- Hsu, P.-T. 7023
- Hsu, Y. C. 3137
- Hsu, Y. Y. 1091
- Hu, G. C. Y. 7114
- Hu, L. W. 97, 4337
- Hu, P. N. 1842
- Huang, G. C. 427
- Huang, N. C. 696, 3215
- Huang, S.-S. 7511
- Huang, T. 6455
- Huang, W.-X. 2664
- Huang, Y. K. 581
- Hubbard, H. H. 5463
- Huber, D. A. 3519
- Huber, P. W. 2396, 5908
- Huber, R. 5494
- Hubert, G. 974
- Huckel, V. 5463
- Hudkov, P. N. 3174
- Hudson, D. E. 5056, 7082

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

AUTHOR INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

- Hudson, J. A. 5729, 6382
 6383
 Hudson, R. L. 6721
 Huet, C. 5158
 Huey, S. E. 5617
 Huff, V. N. 4823
 Huffington, N. J., Jr. 136
 798
 Hug, G. 2074
 Huggins, M. W. 5628
 Hughes, G. 1838
 Hughes, W. F. 1745, 6611
 Hull, D. G. 7236
 Hult, J. 1319, 4319
 Hunka, J. 2721
 Hunt, F. V. 6825
 Hunt, H. H. 2444, 4409
 Hunt, J. N. 7296
 Hunt, L. R. 6668
 Hunt, P. M. J. 814
 Hunter, L. C. 6886
 Hunter, S. C. 3306
 Hunziker, R. R. 1782
 Hurbut, F. C. 6646
 Hurley, J. 1730
 Hurwicz, H. 6667
 Hurwitz, H., Jr. 2397
 Husmann, O. K. 6075
 Hussain, M. A. 3137
 Huston, R. J. 1141, 1644
 Huston, R. L. 4183, 6377
 Huszthy, L. 5837
 Hutchinson, H. A. 7539
 Hutchinson, J. W. 6348
 Hutto, A. J. 4819
 Hutton, R. E. 1627, 5965
 Hwang, C. 2712
 Hyler, W. S. 3852
 Hyrat, J. 2268
 Hyttinen, A. 3884
 Hyzer, W. G. 7107
- Iablokoff, A. Kh. 249
 Iagdzhan, G. K. 6400
 Ibele, W. 6533
 Ibircu, M. M. 4093
 Ibragimov, M. Kh. 3492
 Ibuikiyama, S. 7219
 Ichikawa, K. 2526
 Ichiki, T. 3365
 Ichino, I. 5004
 Ichtenko, G. 4050, 4121
 Id, A. D. 7376
 Ifrim, M. D. 4510
 Ignaczak, J. 4297, 4398
 Iguchi, M. 3086
 Ikebe, Y. 253
 Ikeda, K. 220, 221, 2674
 Ikeno, S. 6050
 Ikezawa, K. 6070
 Il'gamov, M. A. 2635
 Il'in, P. A. 1295
 Il'in, Yu. F. 6433
 Il'ig, W. 5806
 Illi, H. 7554
 Illingworth, C. R. 3932
 Illingworth, J. K. B. 2281
 Il'yashenko, S. M. 474
 Il'yinskii, V. S. 7154
 Il'yushko, E. G. 5115
 Imai, M. 3651
 Imai, S. 3833
 Imamura, T. 2228
 Imber, M. 6683
- Imegwu, E. O. 5134, 5138
 Imenitov, L. V. 4503
 Imhof, J. P. 1885
 Imlay, F. H. 6511, 6530
 Imre, K. 1732
 Imshennik, V. S. 1741
 Infante, E. F. 6237
 Inger, G. R. 912, 942, 1619
 2192, 2223, 2227, 3962
 Ingold, J. H. 2332
 Ingram, J. D. 1430
 Inman, R. M. 289, 6571
 6677, 6678
 Innis, R. C. 3584, 6243
 Inoue, E. 6848
 Inoue, K. 2590, 6998, 6999
 Inoue, N. 21
 Inoue, S. 930
 Inoue, T. 3991
 Inozemtsev, N. N. 6713
 Ionescu-Bujor, C. 3380
 Ionov, V. P. 434
 Iordanskii, S. V. 6698
 losipesku, N. 3855, 7146
 loslovich, I. V. 7193
 Ippen, A. T. 968, 1204
 1820, 6609
 Irani, P. A. 2785, 4854
 Irmay, S. 1557
 Irmier, C. 2964
 Irons, B. 1856
 Irvine, T. F. 6028
 Irwin, M. J. 5757
 Isaacs, D. 7343
 Isaei, V. K. 2545
 Isakovitch, M. A. 2653
 Isakower, R. 637
 Isakson, G. 5052
 Isay, W. H. 2270, 3445
 Isbin, H. S. 888
 Ishida, Y. 827
 Ishii, A. 7598
 Ishii, K. 6050
 Ishikawa, I. 4759
 Ishikawa, J. 1515
 Ishikawa, T. 7469
 Ishimoto, T. 4740
 Ishizawa, S. 5221
 Ishkin, I. P. 398
 Isibasi, T. 837
 Isigami, S. 1089, 1705
 Isshiki, N. 2902
 Itaya, S. 3569
 Ito, H. 3902
 Ito, K. 6249
 Ito, T. 6249
 Itoh, F. 1507
 Itoh, T. 5571
 Iuin, K. 2949
 lurchenko, S. I. 4377
 Ivakin, B. N. 6840
 Ivanchenko, O. N. 5838
 Ivanov, A. N. 1554
 Ivanov, D. M. 3992
 Ivanov, E. P. 1123, 2383
 Ivanov, G. V. 3740, 4366
 Ivanov, Iu. N. 29
 Ivanov, T. F. 6358, 6521
 Ivanov, V. I. 586
 Ivanov, V. P. 2645
 Ivanova, N. G. 4897
 Ivanova, V. S. 3286, 5791
 5805
 Ivanuta, E. I. 7081
 Ivashchenko, A. N. 6987
 Ivashchenko, N. I. 426, 2876
 Ivashev, V. M. 3797
 Ivashkevich, A. A. 2906
- Ives, N. E. 51
 Ivlev, V. S. 5163
 Ivlev, D. D. 716, 1957
 4322, 5607, 5608
 Iwan, L. S. 2940
 Iwanicki, L. R. 3974
 Iwata, Y. 5157
 Iyengar, K. T. S. R. 1526
 3147
 Izbas, Yu. V. 1341
 Izotov, Yu. L. 1492
 Izumi, H. 6249
- J
- Jack, J. R. 1055, 4772
 Jackson, A. P. 7342
 Jackson, E. A. 2935
 Jackson, J. D. 382
 Jackson, J. E. 4832
 Jackson, J. H. 241
 Jackson, K. L. 165
 Jackson, R. 4206, 4207, 6174
 Jackson, T. A. S. 6001
 Jackson, T. W. 1643
 Jackson, W. D. 6762
 Jacob, K. 2741
 Jacobs, E. M. 1179
 Jacobs, F. A. 2088, 3289
 3305
 Jacobs, R. B. 442
 Jacobs, R. F. 4236
 Jacobs, T. A. 1000, 2836
 Jacobs, W. R. 4674
 Jacobson, M. J. 1272
 Jacquard, P. 4210
 Jacqueline, M.-H. 6108
 Jacquesson, R. 3875, 5122
 5123
 Jacquet, P. 236
 Jacquet, P. A. 3848
 Jaeger, C. 5266, 6403
 Jaeger, J. C. 1020
 Jaehnig, G. 15
 Jaffe, L. D. 1481, 2491
 6137
 Jaffrin, M. Y. 6104
 Jagadeesan, K. 6078
 Jahanshahi, A. 4330, 5007
 6124
 Jahn, R. G. 1128, 7241
 Jahoda, F. C. 2402
 Jahsman, W. E. 2009, 3282
 Jain, G. S. 1440
 Jain, M. K. 262, 1202, 1720
 Jain, P. C. 3409
 Jain, S. C. 7387
 Jain, V. K. 1088
 Jakab, I. 6250
 Jakobsen, J. K. 5865
 Jakubowicz, A. 1346
 James, C. S. 5907, 6680
 James, D. C. 1879
 James, H. A. 1172
 James, N. A. 6672
 James, R. G. 2066, 2067
 James, R. L., Jr. 26
 Jamieson, D. T. 1078
 Jana, R. N. 1304
 Janas, M. 1985
 Janes, G. S. 7460
 7070
 Jankovic, V. 7314
 Jankowski, T. 7350
 Janos, J. J. 946
 Janowitz, G. S. 7247
 Jantscher, H. N. 558
- Jaras, W. F., Jr. 4170
 Jaroszynski, T. 2123
 Javornicky, J. 1487, 7145
 Javoronkov, V. A. 823
 Jawor, Z. M. 2748
 Jawurek, H. H. 6048
 Jeanmaire, P. 2954
 Jech, R. W. 247
 Jefferson, T. 4099
 Jeffrey, A. 6756, 7444
 Jenike, A. W. 6830
 Jenkins, H. 1242
 Jenkins, J. L., Jr. 6629
 Jenks, B. L., Jr. 789
 Jennings, P. C. 5739
 Jenny, R. 4255
 Jensen, T. H. 1746
 Jenssen, O. 1678
 Jen-yi, C. 4150, 7488
 Jepps, G. 4056, 4726
 Jepson, G. 2311
 Jerger, E. W. 4732
 Jessel, M. 7447
 Jew, H. 1832
 Jewell, W. O. 4175
 Jewell, W. S. 4248
 Jezewski, D. J. 6247
 Jiang, P.-N. 2664
 Jicha, J. J. 5181
 Jiji, L. M. 6016
 Jimbo, G. 1848
 Jimma, T. 2670
 Jiusto, J. E. 6853
 Joga Rao, C. V. 780
 Joglekar, G. D. 4469, 5854
 Johannessen, N. H. 2780
 3944
 John, P. T. 1435
 Johns, B. 7296
 Johns, D. J. 1137
 Johnson, A. E., Jr. 2970
 Johnson, A. I. 2342
 Johnson, B. M. 3007
 Johnson, B. V. 444
 Johnson, C. B. 305
 Johnson, D. F. 4251
 Johnson, G. W. 6905
 Johnson, H. P. 1819
 Johnson, J. A. 4567
 Johnson, J. L., Jr. 1158
 1169, 5989
 Johnson, K. G. 6142
 Johnson, K. L. 98, 2482
 3650, 6271
 Johnson, K. R. 1023
 Johnson, M. W., Jr. 2589
 Johnson, P. G. 1709
 Johnson, R. A. 4251
 Johnson, R. F. 956
 Johnson, R. L. 2484, 2492
 3045, 4886, 6866
 Johnson, R. P. 3337
 Johnson, W. 816, 817, 1975
 Johnson, W. E. 2358
 Johnston, G. H. 5756
 Johnston, H. L. 538
 Joiner, R. C., Jr. 7238
 Jolliffe, B. W. 1025
 Jones, A. B. 1227
 Jones, B. F., Jr. 6003
 Jones, C. E. 1663
 Jones, E. O., Jr. 121
 Jones, G. W. 4091
 Jones, I. W. 7279
 Jones, J. B. 955
 Jones, J. G. 3375, 6549
 7253
 Jones, J. P. 776, 2025, 3826
 Jones, M. H. 6419, 6438

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Jones, R. A. 6030
 Jones, R. E. 4781
 Jones, R. L. 565
 Jones, T. G. 4187
 Jones, T. M. 412
 Jones, W. H. 1900
 Jones, W. P. 1684
 Jong, I.-C. 7183
 Jonsson, I. G. 3348
 Jonsson, V. K. 1033, 1051
 1070, 2888, 2889, 4059
 5208, 6045, 6531
 Joosen, W. P. A. 1213
 Jordan, M. 5823
 Jordan, W. C. 2401
 Jorgensen, L. H. 3395
 Joseph, D. D. 6524
 Joseph, P. D. 1274
 Joshi, R. K. 4750
 Joubert, P. N. 1609, 1620
 3957
 Jourdan, Ph. 2936
 Journeau, A. 6151
 Jozefowicz, E. 3220
 Ju, F. D. 3129, 3130
 Judd, M. 2789
 Jung, R. 2162
 Jurewicz, L. S. 2831, 2872
 Juricic, H. 5501
- K**
- Kaattari, G. E. 3385
 Kabanov, V. V. 5031
 Kabulov, V. K. 175
 Kachanov, L. M. 5768
 Kachurin, L. G. 6928, 7335
 7337, 7578
 Kacprowski, J. 5114
 Kacprzynski, J. 2621
 Kadanooff, L. P. 1696, 2354
 Kadashevich, Iu. I. 3169
 Kadyshev, F. S. 3756
 Kaekina, T. M. 3621
 Kagan, B. Ya. 1823
 Kaganer, M. G. 6011
 Kaganov, M. I. 1733
 Kahalas, S. L. 2392
 Kahle, A. B. 6855
 Kahnwald, H. 2854
 Kainz, K. 4244
 Kaiser, H. F. 5503
 Kalachev, A. I. 5460
 Kalachev, B. V. 4140
 Kalachev, I. B. 4809
 Kalikhman, L. E. 6676
 Kalil, F. 1829, 2429, 3608
 Kalinin, V. A. 4400
 Kalishevskii, L. L. 2921
 Kaliski, H. 6836
 Kaliski, S. 1428
 2407, 3566, 4328
 4791, 5070, 5072
 5073, 6395, 6396
 Kalkman, C. M. 2819
 Kallstenius, T. 5759
 Kalman, R. E. 4924
 Kalnins, A. 3237, 5698
 Kal'nit'skii, A. A. 710
 Kaloni, P. N. 874, 6023
 Kalyzhskii, Ya. A. 3259
 Kamel, H. 3055
 Kamimoto, G. 5981, 5982
 6633, 6634
 Kamio, S. 5493
 Kamm, W. 1084
 Kammel, G. 196
- Kamphuis, J. W. 3030
 Kan, S. N. 6347, 7013, 7053
 Kana, D. D. 785, 3130
 Kanai, K. 194
 Kanarskii, V. F. 5079
 Kandidov, V. P. 5522
 Kane, E. J. 3387
 Kane, J. 3822
 Kane, T. R. 569
 Kaneko, S. 1109
 K'an-lin, P. 2777
 Kano, C. 835
 Kantarowics, G. T. 6822
 Kantorowicz, O. P. T. 2026
 Kantrowitz, A. R. 6758
 Kao, H.-C. 2487
 Kao, J. S. 5129
 Kao, T. W. 7221
 Kapamadze, B. N. 5396
 Kaparthi, R. 4749
 Kapinos, V. M. 2315, 3498
 Kapkowski, J. 1766
 Kaplan, C. 1036
 Kaplan, P. 6862, 6863
 Kaplan, S. A. 4118
 Kapoor, O. P. 4304
 Kappus, R. 1411
 Kapshyvyy, O. O. 6939
 Kapur, J. N. 522, 1530, 1531
 1576, 2801, 5179
 5234, 5856, 5857
 Karaev, R. 395
 Karakashev, V. A. 1289
 Karal, F. C., Jr. 688, 3820
 Karamchetti, K. 3617
 Karas, K. 6937
 Karasev, A. B. 1612
 Karasina, E. S. 5294
 Karavanov, V. F. 7051
 Karchevskii, A. I. 4798
 Kardashov, A. A. 5535
 Kardonskii, V. M. 3750
 Karlukov, V. P. 2994, 4850
 Karlsson, T. 4396
 Karmazin, I. A. 3351
 Karni, Z. 631
 Karnopp, D. C. 1884
 Karp, S. 375
 Karp, S. N. 688
 Karpati, K. 6464
 Karpenko, G. V. 5095
 Karplus, W. J. 6894
 Karpman, V. I. 4113, 7463
 Karpp, R. R. 7243
 Kartvelishvili, N. A. 5059
 Karwowski, J. 4652
 Kasatkin, A. G. 7220
 Kashkin, A. A. 6654
 Kasper, H. W. 1173
 Kass, S. 6800
 Kastelin, O. N. 4590
 Kastner, L. J. 7333
 Katchen, L. 7576
 Kato, M. 6837
 Katsanis, D. J. 4615
 Katskova, O. N. 7255
 Katto, Y. 1225
 Katz, D. L. 1697
 Katz, J. E. 2406
 Kaufman, A. 1461
 Kaufman, A. N. 3360
 Kaufman, L. G. 460, 984, 1050
 1579, 7321, 7322
 7323, 7324, 7325
 7326, 7327, 7328
 7329, 7330, 7331
 Kaufman, R. N. 2159
 Kaufman, W. 3361
 Kaul, C. N. 6544
- Kaul, R. K. 171, 172
 3246, 6870
 Kauschus, W. 2230
 Kautsch, R. 2649
 Kautsky, J. 1979
 Kauzlarich, J. J. 2796
 Kawakami, F. 2064
 Kawamoto, M. 7491
 Kawamura, R. 7219
 Kawamura, T. 3902, 6714
 Kawanabe, H. 6249
 Kawashima, C. 4759
 Kay, J. M. 2296
 Kayan, C. F. 4013
 Kayan, I. 1444, 3072
 Kaye, A. 2144
 Kaye, J. 1090, 2225
 Kays, W. M. 1029, 2866
 6019
 Kayton, M. 3117
 Kazachenko, M. S. 1471
 Kazantsev, A. P. 2389
 Kazavchinskii, Ya. Z. 3481
 Kazda, L. F. 3
 Kazin, I. V. 3485
 Kearns, G. B. 4185
 Keating, J. C. 3461
 Keck, J. C. 1380, 1646
 Keer, L. M. 4962
 Keffler, J. F. 291
 Kehrt, L. G. 1634
 Keightley, W. O. 5056
 Keilin, V. E. 2299
 Kelleher, M. D. 4618
 Kellenberger, W. 2632
 Keller, D. V., Jr. 3339
 Keller, H. B. 1234
 Keller, J. B. 1234, 2729
 3820
 Keller, R. 1821
 Kelley, H. J. 1903
 Kelly, D. C. 1181
 Kelly, E. J. 18
 Kelly, J. L., Jr. 689
 Kelly, J. R. 3585
 Kelly, R. W. 374
 Kelly, T. C. 362, 3422, 6631
 Kelsey, S. 2154, 3055
 Kel'zon, A. S. 5047
 Kemoklidze, M. P. 7394
 Kemp, N. H. 1670, 5217
 7269
 Kemp, R. F. 6745
 Kempner, J. 1988
 Kempthorne, O. 6201
 Kennard, E. H. 7066
 Kennedy, A. J. 700
 Kennedy, E. D. 5220, 5928
 Kennedy, J. B. 5628
 Kennedy, J. F. 3010, 6543
 Kenney, T. C. 3267
 Kenny, B. 1516, 3838
 Kerimov, A. M. 3477, 6641
 Kerper, M. J. 4161, 7171
 Kerr, A. D. 1358
 Kerr, C. N. 5821
 Kerrebrock, J. L. 5354
 Kerslake, W. R. 7423
 Kervalidze, K. N. 5396
 Kerwin, E. M., Jr. 5057
 Kerwin, J. E. 377, 3447
 Keshock, E. G. 3503, 6695
 Kessler, J. O. 5361, 5362
 Kestin, J. 1610, 1680
 1889, 3472
 Kettleborough, C. F. 2486
 Kevorkian, J. 2431, 4178
 Keyes, F. G. 3474
 Keyes, J. W. 2766
- Keynton, R. J. 3422, 6602
 Keys, R. D. 6131
 Khabeta, F. N. 2933, 4110
 Khakimov, F. Kh. 4785
 Khananay, A. 5562
 Khalil, K. H. 5183
 Khalilov, Kh. M. 3343
 Khalupovskii, M. D. 6872
 Khamrui, S. R. 2746
 Khan, F. R. 6471
 Khanonkin, A. A. 7166
 Khanukaev, A. N. 190, 199
 Kharchenko, V. N. 327, 5932
 Kharin, G. G. 7166
 Kharlamov, P. V. 2827, 3122
 Kharlamov, S. A. 6252
 Khasanshin, N. Kh. 851
 Khas'minskii, R. Z. 3817
 Khatiashvili, G. M. 2567
 Khazen, A. M. 982
 Khazen, E. M. 2809
 Kheisin, D. E. 5632
 Khesin, G. L. 7147
 Khilal', M. M. 3480
 Khimchenko, N. V. 5800
 Khlopkins, A. V. 3482
 Khlyebnikov, D. H. 4352
 Khodakov, G. S. 6828
 Khodorkovsky, Ya. S. 2217
 Khodorov, T. Ya. 3702
 Khokhlov, R. V. 2999
 Kholevo, N. A. 4845
 Khomyakov, V. P. 7602
 Khoroshev, G. A. 282
 Khosla, P. K. 515, 1043
 Khotin, V. G. 7413
 Khozhaev, A. I. 1558
 Khristenko, A. S. 1374
 Khrustichensko, P. I. 534
 4035
 Khronin, D. V. 777
 Khrushchov, M. M. 4885
 Khrustalev, A. F. 1669, 3731
 Khua, Ch. G. 6437
 Khvostov, V. I. 2921
 Kichaev, P. M. 5043
 Kichaev, Yu. P. 5840
 Kicher, T. P. 4348
 Kickbusch, E. 3990
 Kieffer, R. 2691
 Kiley, D. H. 5469
 Kienzle, O. 4427
 Kiernan, T. J. 2619, 6473
 Kiesewetter, H. 3346
 Kifer, I. I. 3868
 Kiiko, I. A. 5586
 Kikkawa, S. 6169
 Kilby, W. F. 2105
 Kil'chevskii, N. A. 7006
 Kilenyi, E. 7569
 Kilham, J. K. 1804
 Kilian, J. 1147
 Kill', I. D. 4927
 Killeen, J. 1725
 Kilmister, C. W. 1262
 Kilstrom, L. 2611
 Kim, V. Yu. 4033
 Kim, W. D. 3039, 4376
 Kimura, S. 1648
 Kimura, T. 5982, 6633, 6634
 Kimura, Y. 6837
 Kinasoshvili, R. S. 7128
 Kind, V. V. 2106
 King, H. H. 5897
 King, H. J. 6076
 King, H. W. 3342
 King, I. P. 6470
 King, J. S. 4680
 Kinloch, C. D. 91

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

AUTHOR INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

- Kinney, R. B. 3527, 6033
 Kinnunen, S. 1441
 Kino, G. S. 5372, 5373, 7421
 Kinslow, M. 4607
 Kintsevych, V. M. 3711
 Kipnis, Ya. I. 3330
 Kirby, R. H. 992, 6584
 Kirchhof, M. 3325, 6482
 Kirde, K. 288
 Kirillov, P. L. 3499
 Kirillova, F. M. 5564
 Kirkham, D. 1819
 Kirkpatrick, C. V. 2164
 Kirkpichnikov, S. N. 7516
 Kirshner, H. A. 462
 Kirshner, H. A. 462
 Kiryukhin, Yu. P. 3771
 Kiselev, M. I. 3568, 5395
 Kiser, K. M. 290
 Kisilenko, B. E. 7556
 Kislevskaya, L. M. 7079
 Kislik, M. D. 6145
 Kislytsyn, C. G. 6884
 Kisse, M. 6182
 Kisslinger, C. 4863
 Kist, H. J. 5598
 Kistler, A. L. 2234, 5887
 Kitadeva, V. F. 4598
 Kitagorodskii, I. I. 833
 Kitajima, K. 2233
 Kitching, R. 5649
 Kito, K. 6249
 Kittelmann, W. 6360
 Kiusalaas, J. 862
 Klaassen, H. 1638
 Klaimon, J. H. 4820
 Klann, J. L. 483
 Klassen-Neklyudova, M. V. 1971
 Klein, B. 2514
 Klein, M. 6637, 6835
 Kleiner, A. 6365
 Klement'ev, N. M. 1849
 Klement'ev, V. G. 2060
 Klich, G. F. 7341
 Klier, E. P. 7168
 Klikh, Yu. A. 4388, 5038
 Klikh, Yu. O. 5677
 Klimontovich, Yu. L. 516
 Klimov, D. M. 4260, 4948
 Klimov, V. I. 107
 Klimushev, A. I. 2535
 Kline, S. J. 2497
 Klingelhofer, R. 6569
 Kliushnikov, V. D. 1297
 Klokov, Yu. L. 6236
 Klosner, J. M. 3253, 6262
 Klotter, K. 6354
 Klotz, M. A. 481
 Klubovich, V. V. 4201
 Kluitenberg, G. A. 5287
 Klyachko, L. S. 2867
 Klyavin, O. V. 7505
 Knaflisch, H. 6854
 Kneller, V. Yu. 4268
 Kneschke, A. 1264, 7483
 Knollman, G. C. 2421, 5743
 Knopoff, L. 2557, 3819, 4407
 5727, 5728, 5729
 6382, 6383, 6384
 Knopp, C. F. 2945
 Knops, R. J. 2057
 Knothe, H. 2993
 Knowles, J. B. 1920
 Knowles, J. K. 802
 Knudsen, F. P. 545, 7170
 Knuth, E. L. 303, 449, 4054
 6034, 6666
 Knyazev, V. N. 2847
 Knyazev, Yu. R. 7433
 Knystautas, R. 5876
 Kobayashi, R. 4662
 Kobayashi, S. 1757, 1758
 6408
 Kobett, D. R. 1759, 6116
 Kobori, T. 3821
 Kobrin, M. M. 3145, 6286
 Kobrinskii, A. E. 5036
 Kobrynski, M. 7538
 Koch, F. 2189
 Kochanov, F. D. 530
 Kochi, K. C. 4285
 Kochina, N. G. 4835
 Kochina, N. N. 3428
 Kocho, V. S. 4716
 Kodama, S. 2533
 Kodaras, M. J. 6161
 Kodnar, R. 2610
 Kodnir, D. S. 618
 Koehlein, F. 2936
 Koenig, L. R. 4086
 Koenigsberger, F. 4461
 Koerber, G. G. 2097
 Koerner, T. W. 493
 Kofanov, V. I. 457
 Kogan, A. 2093
 Kogan, B. Yu. 4525
 Kogan, S. Ya. 7568
 Kogan, Ya. L. 3274
 Kohler, F. 5708
 Kohlmann, L. 1950
 Koifman, Yu. I. 3136, 4298
 Koinumaru, T. 4483
 Koire, V. E. 3842
 Kojima, H. 5824
 Kokin, G. A. 7359
 Kolar, M. J. 2314
 Kolchev, V. V. 140, 866
 Koldobskia, T. G. 293
 Kolesnichenko, M. G. 4968
 Kolesnikov, A. V. 3441
 4688
 Kolesnikov, L. A. 4509
 Kolesnikov, N. I. 3121
 Kollar, L. 151
 Kolmazov, V. L. 214
 Kolmychkov, V. P. 3683
 Kolokolt'sov, N. A. 5871
 Kolomeets, A. N. 7187
 Kolos, V. I. 4979
 Kolosnitsyn, N. I. 4139
 Kolotygina, V. S. 4026, 4712
 Koloskii, M. Z. 5553
 Kolpakov, S. V. 3891
 Kolpashnikov, A. I. 6265
 Kolsky, H. 6386
 Kol'sov, K. S. 1693
 Komarov, G. N. 5416
 Komissarova, M. L. 2566
 Komiljenovic, S. 4975
 Komori, K. 2600
 Kompaneets, A. S. 4030
 Kondakova, O. N. 128
 Kondo, K. 1330, 4900
 Kondrashov, N. G. 6651
 Kondrat'eva, T. F. 325
 Kondratur, V. T. 6796
 Kondrat'yev, K. Ya. 609
 4840, 5318
 Kondrikov, B. N. 6152
 Konishi, T. 1228
 Kon'kov, A. A. 434
 Kononchuk, N. I. 5414
 Kononenko, V. O. 1391, 5679
 6217
 Konovalov, B. A. 129
 Konyukhov, A. D. 5793
 Koontz, D. E. 2717
 Kooy, J. M. J. 3612, 5439
 7515
 Kopnin, Yu. M. 5436
 Kopp, R. E. 2540
 Koppang, R. R. 1094
 Koppel, D. 1007
 Kopytov, L. N. 833
 Korablev, A. I. 4521
 Korablev, S. S. 6240
 Korbacher, G. K. 5248, 7284
 Korda, J. 751
 Kordas, Z. 5662, 7038
 Kordina, K. 6772
 Kordyukova, L. N. 7130
 Korenev, B. G. 733, 3755
 Kornecki, A. 6114
 Korneev, N. I. 5085
 Kornfield, P. 1803
 Kornienko, V. T. 1149
 Kornilov, G. I. 6479
 Kornilov, R. V. 6918
 Kornilov, V. V. 6644
 Kornreich, T. R. 2974
 Korobenikov, V. P. 2782
 2994, 4129, 4850, 7533
 Korobov, J. 3096
 Korochkin, E. I. 471
 Korotkov, A. A. 5159
 Korotkov, A. I. 4843
 Korshunov, D. A. 1491, 5809
 Kortkov, A. I. 916
 Korvin-Kroukovsky, B. V. 1212
 Korycinski, P. F. 1072
 Kosachevskii, L. Ia. 1807
 Kosaka, Y. 2107
 Kosarev, A. A. 1887
 Koshelev, L. I. 5754
 Koshelev, P. F. 218, 690
 Koshetkin, V. V. 4699
 Kosliakova, V. N. 3120
 Koskela, P. 6799
 Koskinen, M. F. 4324
 Koslov, S. 511
 Kossen, R. L. 1605
 Kostro, G. 3058
 Kostyuk, O. M. 3718
 Kosyakin, A. A. 5556
 Kotake, S. 5451
 Kothandaraman, M. 1503
 Kotik, J. 3036, 3041, 4875
 Kotin, V. G. 7412
 Kotlyar, S. M. 7370
 Kotlyarevskii, V. A. 1475
 3252
 Kotnik, J. T. 1096
 Kotov, P. I. 4444
 Kotov, Ya. P. 5387
 Koumoutsos, N. G. 4760
 Kouzov, D. P. 6155, 6378
 Kovacik, V. P. 492
 Kovacs, G. 1950
 Koval, L. R. 2614
 Kovalenko, A. D. 535, 4344
 5405
 Kovalenko, V. M. 7317
 Kovalenko, V. S. 5767
 Kovalev, N. N. 7178
 Kovalev, Ya. G. 5893
 Kovatch, G. 3691
 Kovatskii, M. I. 4227
 Kovitz, A. A. 4760
 Kovriga, V. V. 85
 Kovtun, A. P. 383
 Kozai, I. 4834
 Kozak, A. M. 2262
 Kozesnik, J. 2038
 Kozhukh, V. Ya. 4719
 Kozin, F. 36
- Kozlov, I. A. 5783
 Kozlov, L. A. 1450
 Kozlov, L. F. 5927, 6586
 Kozlov, P. M. 3890
 Kozlov, V. Sh. 3315
 Kozmodemyanskii, A. A. 7287
 Kozubowski, R. 7314
 Kozyrev, A. P. 5288
 Kozyrev, S. P. 6183
 Kozyvskii, G. Ya. 4316
 Kracik, J. 6102
 Kraemer, O. 479
 Kraft, J. M. 5087
 Kraftmakher, Ya. A. 4021
 Kraichnan, R. H. 1674, 2229
 5237, 5948
 Kraiko, A. N. 3419, 7255
 Krakoviak, A. I. 7388
 Krakowiak, S. 6517
 Krall, A. M. 2502
 Krall, N. A. 1726
 Kramarenko, O. Yu. 4446
 Kramer, I. 1474
 Kramer, J. L. 435
 Kranc, G. M. 1282
 Krascella, N. L. 2290
 Krasil'nikov, N. A. 3274
 Krasil'nikov, V. A. 4855
 Krasil'nikov, V. N. 2047
 Krasnoshchekov, P. S. 2255
 Krasovskaya, G. M. 2704
 Krasovskii, N. N. 3106, 6904
 Krassov, I. M. 2534
 Krauklis, P. V. 4397, 5694
 Krause, F. 2238
 Krause, J. T. 1812
 Kravchenko, S. F. 7506
 Kravtchenko, J. 3831
 Krawczyk, R. 1873
 Kreines, M. A. 6481
 Kreinin, G. V. 1942
 Kreiss, H.-O. 5
 Kreith, F. 3502
 Krementulo, Ty. V. 3112
 Krementulo, V. V. 2634
 Krenzke, M. A. 2619
 Kretzschmar, G. 5222
 Kreyszig, E. 6354
 Kricheskaya, E. A. 1959
 Kriegsman, B. 2552
 Krill, A. M. 4692
 Krishan Piara Singh, ... 6842
 Krishna, J. R. 2830
 Krishnamurthy, N. 1946
 Krishnan, P. V. 6162
 Krishnappa, G. 3929
 Krishnasamy, S. 7179, 7180
 Krishtal, M. A. 2104
 Kroitoru, E. 5528
 Krokh, V. A. 94
 Kroll, R. J. 5069
 Kronberg, E. G. 5716
 Kropp, L. I. 5294
 Krushkin, A. N. 271
 Krotov, V. F. 1969, 6808
 Kruchkevich, V. Yu. 5406
 Krug, S. 7017
 Kruger, C. H. 6729
 Krull, F. N. 69
 Krumhaar, H. 3814
 Krupnikov, K. K. 805
 Kruse, R. B. 1155
 Krushchov, M. M. 5794, 6184
 Krylov, A. L. 7224
 Krynicki, E. 6339, 7046
 Krzys, W. 7174
 Krzyszton, D. 6167, 6168
 Krzywoblocki, M. Z. v... 322
 948, 5925

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

AUTHOR INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

57

- Ku, P. M. 1852, 4443
 Ku, Y. H. 1908
 Kuanyshhev, K. G. 4321
 Kubair, V. 3933, 4044
 Kubicki, J. 4506
 Kubin, R. F. 4709
 Kubota, H. 455
 Kubota, S. 6070
 Kubota, T. 6565, 7258
 Kucharczyk, P. 326, 4912
 Kucherev, R. Ya. 7448
 Kudo, H. 2094
 Kudret Selcuk, M. 6679
 Kudryashev, L. I. 266, 421
 425, 2300, 2877, 7380
 Kudryavtsev, E. M. 6561
 Kudryavtsev, I. V. 4531
 Kuduzhanov, S. N. 761
 Kuehl, H. H. 7446
 Kuehn, D. M. 306
 Kuenzi, E. W. 238, 5026
 Kuethe, A. M. 5938
 Kuga, O. 6017
 Kugel', R. V. 5491
 Kuhn, R. E. 1167
 Kuhnkiess, R. 6165
 Kuipers, M. 7295
 Kukhtenko, O. I. 6909
 Kukhievich, G. M. 5801
 Kula, E. B. 6896
 Kulagina, S. S. 611
 Kulakov, Iu. I. 1904
 Kulemen, L. A. 5930
 Kuleshov, D. Ya. 5773
 Kuleshova, Z. G. 3161
 Kul'gavchuk, V. M. 198
 Kulgein, N. G. 2224
 Kulikovskii, A. G. 1588
 Kulikovskikh, V. A. 4429
 Kulkarni, M. G. 6307
 Kulonen, G. A. 2207
 Kuloor, N. R. 3933, 4044
 Kulshrestha, P. K. 7117
 7200
 Kumabe, J. 7119
 Kumagai, T. T. 5438
 Kumai, T. 2037, 7084
 7085, 7086
 Kumar, V. 1440
 Kunnick, M. C. 2490
 Kunert, K. 687, 2963
 Kung, R. 2289
 Kunii, D. 5331
 Kunkel, W. B. 1717
 Kunukkasseri, V. X. 6370
 Kunze, G. 2689
 Kuo, J. K. 7060
 Kupfer, H. 1412
 Kupradze, V. D. 6936
 Kurata, M. 1398
 Kurdyumov, G. V. 3750
 Kurganova, E. A. 5109
 Kuritsyno, A. D. 4498, 4810
 Kurkin, V. P. 2996
 Kurlandzki, J. 6352
 Kurmit, A. A. 3073
 Kurochkin, F. P. 1775
 Kuroda, K. 5770
 Kuroki, K. 4474
 Kurshin, L. M. 701, 1381
 Kurtenacker, R. S. 6497
 Kurtz, E. F., Jr. 330
 Kurzin, V. B. 6117
 Kurzius, S. C. 7254
 Kurzweg, U. H. 1561, 3546
 Kushiyama, T. 1197, 3015
 Kushner, H. J. 43, 3088
 Kuske, A. 1463, 2587
 Kutateladze, S. S. 328, 2876
 3958, 6688
- Kutsnevych, V. M. 3092
 Kutz, C. E., Jr. 3865
 Kuyt, B. 5131
 Kuzmak, G. E. 2545, 5436
 Kuz'menka, V. A. 5804
 Kuz'michev, A. E. 1333
 Kuznetsov, A. P. 701
 Kuznetsov, E. N. 4947
 Kuznetsov, S. V. 202
 Kuznetsov, V. M. 1191, 2068
 Kuznetsova, K. I. 6418
 Kuznetsov, K. P. 4756
 Kvartskhava, N. F. 5396
 Kynast, G. 6614
 Kyogoku, T. 542
 Kyser, A. C. 1355
 Kyser, J. B. 4001
 Kyst'yan, K. Ya. 3236
- L
- Labozin, P. G. 3193
 Labrujere, Th. E. 7251
 Lacaze, H. 2362
 Lacher, G. 721
 Lackman, L. M. 6120
 Lacoss, R. T. 3693
 Laderman, A. J. 1189
 Ladner, J. E. 2435
 Ladson, C. L. 5204
 Ladyzhenskaya, O. A. 286
 Ladyzhenskii, M. D. 2184
 4112, 5903
 Lafferty, D. L. 5393, 6738
 Lafrance, J. C. 323
 Lagarde, F. 4230, 4955
 Lagerev, V. V. 2851
 Lagerstrom, P. A. 2431
 Lagunov, V. A. 4416
 Lai, W. 6520
 Laidler, R. McN. 4192
 Laikhtman, B. D. 7545
 Lakshmana Rao, S. K. 259
 Lakshminarayana, B. 972
 976, 5243
 Lakshminarayana, G. 5629
 Lalangas, P. A. 1844, 3643
 Lalangue, P. 4604
 Lam, D. M. 3091
 Lam, S. H. 333
 Lamb, G. L., Jr. 3554
 Lambert, T. H. 1452, 1522
 5575, 5579
 Lamble, J. H. 3311
 Lamborn, B. N. A. 5393, 6738
 Lambourne, N. C. 7475
 Lancaster, J. K. 4222
 Lancaster, P. 1864
 Lance, R. H. 120
 Landa, P. S. 6895
 Landgraf, H. 4070
 Landis, F. 4728
 Landhoff, R. K. M. 7256
 Landweber, L. 3367
 Lanford, W. E. 566, 7350
 Lang, A. B. 3841
 Lang, R. 6849
 Lange, E. A. 7133
 Lange, J. N., Jr. 1416
 Langer, B. F. 744, 6495
 Langer, R. M. 388
 Langhaar, H. L. 1902, 3192
 7064
 Langhans, V. E. 958
 Langlois, W. E. 1532, 4546
 Langstone, P. F. 3878
 Lanin, I. N. 900
- Lansing, D. L. 6156
 Lansing, W. 7279
 Lantsman, F. P. 3524, 5332
 Lanzo, C. D. 2812, 6042
 Lapides, M. E. 1698
 Lapidus, L. 2528
 Lapin, A. A. 5103
 Lapworth, K. C. 7365
 Larisch, E. 5293
 Larkin, B. K. 3629
 Larras, J. 5476, 5477
 5478, 5479, 7570
 Larson, F. R. 7165
 Larson, M. B. 419
 Larson, R. H. 1857
 Larson, T. J. 385
 Larue, P. 6723
 Lary, E. C. 3558
 LaSalle, J. P. 5507
 Laschka, B. 4385, 4386
 Lashkov, A. I. 1596
 Lasinskas, M. I. 1822
 Lass, H. 652
 La Tegola, A. 154
 Latham, R. 4786
 Lau, J. 5280
 Lauer, E. J. 2401
 Laughrey, J. A. 4194
 Laurmann, J. A. 2198, 2199
 Lautman, D. 6805
 Lauver, M. R. 2838, 7346
 Laval, P. 910
 Lavender, R. E. 2434
 4575
 Lavrent'ev, M. A. 1874
 Lavrov, P. I. 468
 Lawford, J. A. 2832
 Lawing, P. L. 2279
 Lawlor, P. J. 4773
 Lawrence, R. L. 5213
 Lay, M. G. 6977
 Layrargues, P. 6314, 7043
 Layzer, D. 6854
 Lazarev, A. A. 167
 Leach, R. 1174
 Leadbetter, S. A. 163, 6371
 Lebedev, D. V. 4468
 Lebedev, I. V. 5783
 Lebedev, L. L. 7234
 Lebedev, Yu. A. 7532
 Leckie, F. A. 2019, 2028
 3656, 6317
 Lecocq, P. 4109
 Lee, C. M. 3642
 Lee, C. W. 5621
 Lee, D. F. 91
 Lee, E. B. 1292, 4280
 4936, 5568
 Lee, E. H. 540, 696, 697
 3155, 6279, 6281
 Lee, F. A. 5457
 Lee, G. 1577
 Lee, G. C. 2697, 5659, 7042
 Lee, H. A. 4694
 Lee, H. C. 155, 6363
 Lee, J. 5950, 7205
 Lee, J. C. 2914
 Lee, K. 5328
 Lee, R. F. 3374
 Lee, R. H. 5946
 Lee, R. S. 298, 302
 5195, 6552
 Lee, S. L. 862, 1364
 2695, 3320, 3828, 5129
 5263, 5660, 6336
 Lee, T.-M. 116
 Lee, Y. 1673, 6675
 Leech, J. W. 799
 Lees, L. 905, 6553
 Le Fur, B. 4003, 5315, 6501
- Legendre, R. 4565, 4641
 Legenya, I. D. 756, 5046
 Legler, K. P. 2519
 Legreneur, M. J. 5872
 Lehman, A. F. 6513, 6862
 Lehman, G. W. 2356
 Lehmer, D. H. 2504
 Lehner, B. 512
 Lehrian, D. E. 2822
 Leibowitz, M. A. 5681
 Leibowitz, R. C. 1843, 2476
 3640, 7066
 Leidenfrost, W. 1661
 Leighton, R. B. 653
 Leimendorfer, M. 5333
 Leipholz, H. 1375, 1376
 2011, 3123, 5657, 5664
 Leissa, A. W. 5624
 Leites, S. D. 3785
 Leitmann, G. 46, 3677
 5720
 Lekhnitskii, S. G. 70, 694
 5022
 Le Marne, A. 1020
 Lemcke, B. 1582
 Lemco, M. M. 2095
 Le Meaute, B. 5958
 Lenau, C. W. 2740
 Lencastre, A. 882
 Leo, B. S. 4061
 Leonard, B. P. 531
 Leonard, R. W. 5671
 Leonas, V. B. 4608, 6036
 Leondes, C. T. 670, 671
 Leonhard, A. 31
 Leonhardt, F. 5132
 Leonov, A. I. 5175
 Leonov, M. Ya. 99, 1327
 5582, 6987
 Leont'ev, A. I. 328, 1611
 6688, 7249
 Leont'ev, M. E. 5566
 Leont'ev, S. I. 3958
 Leopold, R. 3447
 Lepik, Yu. R. 1348, 4369
 6974, 7028
 Leppert, G. 4744, 4745, 6659
 Lerbs, H. 376
 Leroy, J. 5044
 Lescoul, C. 5309
 Leslie, C. B. 7544
 Leslie, F. M. 7199
 Leslie, W. H. P. 675
 Lester, W. G. S. 3593, 3596
 Lestev, A. M. 3125
 Letko, W. 6899
 Leung, E. Y. 6019
 Leutheusser, H. J. 876
 Levasseur, M. 4961
 Leve, H. L. 5135
 Leveque, M. 4859
 Levenson, L. L. 4605
 Levey, G. M. 1142
 Levi, V. 3782
 Levien, K. W. 787
 Levikov, A. A. 3843
 Levin, E. 1629
 Levin, F. K. 1430
 Levin, M. L. 4793
 Levin, V. A. 2367
 Levine, H. S. 6262
 Levinsky, E. S. 634, 2222
 5946
 Levit, M. E. 2021
 Levitin, L. B. 5067, 5395
 Levitskii, S. M. 3717
 Levlev, V. N. 7407
 Levy, G. G. 4818
 Levy, L. L., Jr. 568
 Levy, R. H. 518, 6760, 7460

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

AUTHOR INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

- Levy, R. S. 3316
 Levy, S. 2039, 2575
 Lew, H. S. 7014
 Lewallen, J. M. 5431
 Lewicki, B. 4506
 Lewin, B. H. 3191
 Lewin, M. 4587, 6845
 Lewis, A. D. M. 248
 Lewis, C. H. 2364, 4052
 Lewis, E. V. 3040
 Lewis, F. A. 5520
 Lewis, J. A. 2432, 5529
 Lewis, J. B. 1919
 Lewis, P. 1858
 Lewis, R. I. 3435, 5967
 Lewis, R. M. 2229
 Lewis, T. J. 6494
 Lewis, W. 4655, 6612
 Lewitt, C. W. 1523
 Leybold, H. A. 7164
 Leybold, R. A. 6422
 Leyhe, E. W. 7341
 Leyko, J. 134
 Lezberg, E. A. 922, 923
 L'Hermite, R. 4336
 Li, C. H. 1850
 Li, S. K. 7337
 Li, S.-T. 3323, 7183
 Lianis, G. 79, 86, 804, 2845
 3156, 6123
 Liashenko, V. F. 1294, 3120
 Liaw, B.-K. 4983
 Libbey, C. E. 994, 5989
 Libby, P. A. 933, 946
 1603, 2795, 5931
 Liberg, L. A. 2139
 Liberman, A. D. 1491
 Liberov, Yu. P. 4391, 4494
 5805
 Liboff, R. L. 509, 2947
 Librescu, L. 4143
 Libsch, J. F. 6435
 Licht, L. 6870
 Lichtarowicz, A. 3931
 Lichtenheldt, W. 5842
 Lick, W. 1024, 5216
 Lidov, M. L. 6140
 Lidskii, E. A. 1273, 2547
 Liebau, A. 4723
 Liebelt, P. B. 53, 1288
 Lieber, P. 5229
 Lieberman, E. 784
 Liebing, L. 2366
 Lieblein, S. 2895, 7536
 Lielausis, O. A. 4776
 Lienard, P. 4693
 Lienhard, J. H. 2908, 6691
 6694
 Liepe, F. 4580
 Liepins, A. A. 1980
 Liepmann, H. W. 918
 Lieu, B. H. 7381
 Lieulausis, O. A. 4794, 4795
 Lifshits, A. G. 2161, 4682
 Lifshits, Yu. B. 7228
 Lifshitz, J. M. 6386, 7099
 Lighthill, M. J. 585
 Lightner, R. G. 5181
 Ligon, J. T. 1819
 Lihl, F. 2969
 Likhodet, A. I. 3235
 Lilly, D. K. 7396
 Lima, C. S. 5829
 Limberg, H. 2751, 7261
 Lin, J. D. 499
 Lin, S. H. 3493, 5942
 Lin, T. H. 5587, 6120
 Lin, Y. K. 788, 3619, 4212
 Lind, N. C. 3292, 5820
 6289
 Lindberg, G. M. 2019, 3223
 Lindberg, H. E. 6344
 Lindgren, B. W. 1243
 Lindholm, U. S. 785
 Lindorff, D. P. 38
 Lindsjö, G. 3913
 Ling, F. F. 1377, 6014
 Ling, S. C. 1675, 5238
 Link, H. 753
 Linkovskii, G. B. 3381
 Linnaluoto, V. 4993
 Linzer, M. 3563
 Lions, J. 2511
 Lipatov, Yu. S. 261
 Lipovoi, G. S. 7281
 Lipovskiy, D. Ye. 7013
 Lippmann, H. 4421
 Lipps, F. B. 1826
 Lips, D. 5563
 Lipson, S. 6397
 Lipstein, N. J. 7218
 Liska, J. A. 6463
 List, R. 5483
 Listrova, Yu. P. 4327
 Little, W. A. 6424
 Little, R. E. 7131
 Littman, W. 3070
 Litvin, F. L. 2073
 Litvinenko, N. A. 5801
 Litvin-Sedal, M. Z. 660
 Litwiniszyn, J. 1245, 3353
 4751, 5464
 Liu, C. K. 7064
 Liu, H. W. 228
 Liu, L. K. 1119
 Liu, R.-W. 2622
 Liu, S. 3399
 Liu, S. W. 991
 Liu, V.-C. 1832
 Liubimov, G. A. 2949
 Liu Ci-Tong 5464
 Livshits, L. D. 6982
 Livshits, P. Z. 5592
 Lizarev, A. D. 5684
 Lloyd, J. R. 1000
 Lo, H. 2437
 Lobastov, Yu. S. 4601, 4602
 5399
 Lobdell, A. J. 6429
 Lobel, G. 112
 Lobyshev, Yu. I. 4581
 Lock, M. H. 1421
 Lock, R. C. 2813, 4644
 Lockett, F. J. 4404, 6288
 Lockwood, F. C. 6628
 Lockwood, V. E. 3458
 Laden, W. A. 6960
 Loewenstein, J.-C. 5458
 Lot, G. O. G. 454, 1040
 Loft, E. E. 2971
 Loftus, J. J. 2912
 Logan, H. L. 1454
 Loginov, V. E. 4432
 Lohse, P. 5846, 6569
 Loiseau, H. 4585
 Lojko, M. S. 7445
 Lokhin, V. V. 1861, 2507
 3657, 3658
 Lokshin, I. L. 3442, 7307
 Loladze, T. S. D. 6737
 Loladze, T. N. 2668
 Lomize, G. M. 5077
 Londer, M. I. 2551
 London, A. L. 7401
 London, H. S. 3600
 Lonergan, J. J. 2074
 Long, R. R. 11, 351
 Longfield, M. D. 6189
 Longley, D. 3689
 Longobardo, G. 6244
 Longuet-Higgins, M. S. 966
 Longwell, P. A. 6525
 Lonqvist, O. 1830
 Lontz, J. F. 2490
 Lopez, A. E. 1898, 7520
 Lorell, J. 560
 Lorenz, G. C. 6664
 Lorenz, M. 2869
 Loscutoff, W. V. 6705
 Losev, S. A. 5317, 6411
 Loshkarev, A. I. 4132
 Loss, F. J. 2596
 Lott, S. A. 3244
 Lottes, P. A. 3522
 Louis, J. F. 4060
 Louw, J. M. 7083
 Lovachev, L. A. 4094
 Lovass-Nagy, V. 1027
 Love, G. G. 2598
 Lovelace, U. M. 5433
 Lovetskii, E. E. 5363
 Low, A. H. 3410
 Low, C. A., Jr. 2929
 Low, D. I. R. 4748
 Low, R. D. 6941
 Lowe, J. III. 7115
 Lowery, J. L. 301
 Lowery, L. L. 3832
 Lowry, B. A. 6636
 Lowson, M. V. 5977
 Lozgachev, V. I. 320, 321
 Lozovskaya, V. F. 5769
 Lu, L.-W. 754
 Lu, S. Y. 2004
 Lu, Z. A. 5013
 Lubard, S. 4169
 Lubin, B. T. 6849
 Lubliner, J. 1420
 Lubowe, A. G. 5561
 Lucas, J. G. 447
 Luchinskii, V. N. 7195
 Luck, G. A. 4380
 Ludford, G. S. S. 1117, 3565
 Ludwig, H. 1598, 2205
 Ludwig, R. 1779
 Lueders, D. 1548
 Luessen, G. 1756
 Lufburrow, R. A. 3469
 Lugovtsov, B. A. 2779
 Lugt, H. J. 4219, 6523
 Luidens, R. W. 3606
 Luikov, A. V. 2352
 Lukasiewicz, S. 1766, 6321
 Luke, Y. L. 9, 6548
 Lukom'skaya, A. I. 6278
 Lukov's'ki, I. O. 3977
 Lum, M. D. 2494
 Lumb, P. 2063, 7116
 Lumley, J. 3655
 Lumley, J. F. 1882
 Lumley, J. L. 6591, 7436
 Lunc, M. 4188
 Lundberg, R. E. 417, 418
 1029
 Lundergan, C. D. 7121
 Lundgren, H. 3348
 Lundgren, T. S. 1033, 4124
 5208, 5942
 Lundstrom, R. R. 3461
 Lunev, I. M. 3886
 Lun'kin, Yu. P. 2777, 6580
 Lur'e, A. I. 27, 4177, 6220
 Lur'e, K. A. 1626, 4909
 Lurye, J. R. 375
 Lush, P. E. 2757
 Lustgarten, P. 3896
 Lutskii, V. A. 1916
- Lutsyuk-Khudin, V. A. 3332
 3847
 Luu, T.-S. 4788, 4881
 Luzhin, O. V. 2032
 Lyakhov, G. M. 4415
 Lyakov, V. K. 421, 2877
 Lyamshev, L. M. 6158, 6160
 Lychagin, V. F. 4581
 Lyddane, R. H. 3599
 Lykoshin, A. G. 5752
 Lykoudis, P. S. 5926
 Lyman, F. A. 617, 2957
 Lyman, P. T. 6122
 Lynch, J. N. 6649
 Lynn, L. L. 416
 Lynn, R. Y.-S. 5190
 Lynn, Y. M. 7462
 Lyon, R. H. 7091
 Lyons, D. H. 18
 Lysanov, Yu. P. 4198
 Lysen, J. C. 371, 5508
 Lyshevskii, A. S. 2459
 Lysov, M. I. 2579
 Lyster, H. N. C. 1160, 5421
 Lyubarskii, G. Ya. 5382
 Lyudmirskaia, I. B. 5849

M

- Maag, W. L. 6669
 Mabey, D. G. 5193
 Mabie, H. H. 2724, 5683
 Mabuchi, I. 1075
 MacCamy, R. C. 5170
 MacConochie, I. O. 2496
 MacCormack, R. W. 3255
 MacDonald, D. K. C. 390
 MacDonald, G. J. F. 6740
 MacFarlane, A. G. J. 32
 1277, 4923
 Machan, P. 5019
 MacHattie, L. E. 1076
 Machek, J. 6832
 Machnig, O. 5670
 Mackay, D. 1653
 Macke, W. 6725
 MacKenzie, D. 963
 Macker, G. 4668
 Mackie, A. G. 2823
 Mackrodt, P. A. 1761
 MacNeal, R. 5836
 Maczynski, J. 6209
 Madansku, A. 642
 Maddox, A. R. 3398
 Madejski, J. 4063
 Madsden, B. 5672
 Maeda, K. 3033
 Maeder, P. F. 1680
 Maevskii, E. K. 4441
 Maevskii, V. M. 3451
 Magee, D. A. 3198
 Maggs, C. 2717
 Magiros, D. G. 3607
 Maglieri, D. J. 364, 384
 1810, 5463, 6156
 Magnaradze, N. G. 5446
 Magnus, K. 649
 Magomedov, K. M. 5891
 Mahaffey, W. R. 1155
 Mahalingam, S. 779
 Mahig, J. 6275
 Mahn, H. G. 4722
 Mahrenholz, O. 2269, 4421
 Maidanik, G. 7091
 Maigarin, B. Zh. 3697
 Mair, W. M. 6978
 Maisuk, L. B. 7192

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Majumder, S. R. 887, 2745
3355
- Mak, S. L. 4471
- Makarov, B. I. 6644
- Makarov, L. O. 2633
- Makarov, Y. I. 425
- Makarov, Yu. V. 4128, 5988
- Makemson, M. W. 547
- Makemson, R. L. 1154
- Makhbaliyev, S. A. 3856
- Makhortykh, G. B. 5186
- Makhovikov, V. I. 2563, 4037
- Maki, H. 3434
- Makino, M. 862
- Makofski, R. A. 337
- Maksimov, V. A. 5734
- Maksimov, V. V. 6933
- Maksimovich, G. G. 3880
5095
- Makukhin, S. I. 3866
- Malik, N. I. 6442
- Maling, G. C., Jr. 2446
- Malini, V. 646
- Malinin, N. I. 260, 4973
- Malinin, N. N. 6958
- Malinkovich, E. M. 5117
- Malkina, L. I. 3488
- Malkov, M. A. 803
- Mallett, R. H. 1488
- Mallick, D. D. 1101
- Mallick, D. L. 7524
- Malo, R. V. 4752
- Malov, A. P. 4463
- Maltback, J. C. 2018, 4387
- Mal'tsev, B. K. 3476
- Mal'tsev, N. Ya. 3038
- Mal'tsev, V. M. 6712
- Malvern, L. E. 1948
- Malykhin, V. I. 5010
- Mamaladze, Yu. G. 7394
- Mamedov, R. Yu. 3698
- Mandel, J. 3248, 4310
5604
- Mandell, B. 3950
- Maneely, D. J. 6575
- Mangasarian, O. L. 1254
- Mangeron, D. 2523, 4281
4918, 6487
- Mangiarotto, R. A. 587, 4197
- Mangulis, V. 7537
- Maniar, N. M. 6472
- Manjoine, M. J. 4436
- Mann, J. A., Jr. 3429
- Mann, W. M., Jr. 1615
- Manning, R. J. 6274
- Mann-Nachbar, P. 2009
- Manohar, M. 2153
- Manring, E. 6854
- Mansell, D. S. 1498
- Mansfield, E. H. 741, 834
1770, 2036, 4514
- Manfield, J. N. 978
- Manson, N. 5452, 7527
- Manukyan, M. M. 706, 1317
1325
- Manwell, A. R. 2174
- Mao, S.-W. 2456
- Marangozis, J. 2342
- Marbach, H. 44
- Marble, F. E. 2926
- Marcal, P. V. 734
- Marceau, P. 5351, 6077
- Marchal, R. 4603
- Marchaterre, J. F. 527
- Marchenko, T. V. 990, 5987
- Marcou, C. 5961
- Marcus, B. D. 2900
- Marechal, J.-C. 2702, 7500
- Maresca, M. W. 5310
- Margason, G. 5757
- Marguerre, K. 6356
- Margulis, A. I. 4533
- Margulis, O. M. 4023
- Marienfeld, H. 6210
- Marin, J. 3772
- Marino, R. L., Jr. 4451
- Mark, R. 5781
- Markarov, N. A. 1495
- Markels, M., Jr. 5321
- Marker, M. 7595
- Marketos, E. 2570
- Marketos, J. D. 742
- Markland, E. 3931
- Markovets, M. P. 3850, 5094
5612
- Markowitz, H. 2053
- Markson, E. E. 1936, 3068
6136
- Marman, H. V. 374
- Marquis, H. 1483
- Marreco, D. 1388
- Marriot, A. T. 5281
- Marris, A. W. 3350, 4569
6538
- Marrone, P. V. 1581
- Marschall, C. W. 3852
- Marsh, T. 921
- Marshall, M. W. 243
- Marshall, W. T. 1349
- Martellucci, A. 5228
- Martens, H. E. 1481, 2491
- Martes-Trope, M.-J. 4423
- Martikan, F. 2429
- Martin, B. W. 6628
- Martin, C. J. 7478
- Martin, D. W. 3209
- Martin, E. D. 1563
- Martin, J. B. 2708
- Martin, M. 6501
- Martina, H. 5326
- Martincek, G. 3863
- Martinet, B. 794, 5726
- Martinez, J. P. 4501
- Martini, L. 4508
- Martini, T. 5700
- Martinot-Lagarde, A. 4642
- Martoccia, R. F. 849
- Martynov, A. V. 1887
- Martynov, E. D. 6982
- Martynova, T. N. 5608
- Martz, C. W. 5514
- Maruo, H. 1836, 6767
- Marvin, R. S. 708
- Marx, I. 1251
- Mas, E. 2010, 5137
- Masaki, T. 6767
6339, 7046, 7101
- Mascola, R. E. 6667
- Mase, G. E. 1316
- Masek, Z. 2258
- Masher, E. F. 4711
- Masica, W. J. 6608
- Masie, G. 5210
- Maslach, G. J. 1592
- Maslen, S. H. 309
- Mason, E. A. 2856
- Mason, J. 108, 7031
- Mason, P. 2709
- Mason, W. P. 6826
- Massa, E. 5037
- Masser, P. S. 2395
- Massev, C. 3202
- Massev, H. 576
- Massingill, E. C. 792
- Massonet, Ch. 2010, 3313
6351
- Massoud, M. F. 2020
- Mastrup, F. 5391
- Masuda, S. 1657
- Masuko, M. 7119
- Masur, E. F. 2637, 7049
- Mateczynski, M. 1303
- Mateescu, D. 5198
- Mateev, K. V. 277
- Matheny, N. W. 5954
- Mathews, P. M. 6361
- Mathieu, J. 4583, 4584
399
- Mathur, G. P. 1326
- Matherin, G. 4683
- Matroicon, M. M. 4293
- Matrosov, V. M. 4293
- Matskevich, V. D. 3846
- Matsudaira, T. 3675
- Matsuji, N. 4920
- Matsumoto, R. 6079
7577
- Matsuji, T. 5758
- Matsuura, Y. 2666, 6129
- Matsuzaki, A. 2135
- Matt, R. J. 2129
- Matting, A. 5152
- Mattner, R. H. 4532
- Matveev, L. T. 1827
- Matveev, P. S. 3695
- Matveev, S. K. 7397
- Matveev, V. V. 4389
- Matytsin, V. D. 3111
- Mauch, S. 5033
- Maude, A. D. 6170
- Maunder, L. 1943
- Mauersberger, P. 2382
- Maugh, L. C. 4500
- Maughan, R. 458
- Maulard, J. 2875
- Mauli, D. J. 1631
- Maurer, L. 1943
- Maurin, J. 3937
- Maus, H. 2010
- Mavriplis, F. 4703
- Maxwell, P. T. 488
- Maxwell, R. L. 2092
- Maxwell, W. H. C. 2479
- May, A. 1192
- May, C. E. 3279
- May, E. C. 6855
445
- May, H. 6865
- May, W. D. 348
- Maydew, R. C. 6186
- Mayer, J. E., Jr. 6186
- Mayhue, R. J. 5433
- Maynard, J. D. 1939
- Mayne, D. O. 2530
- Mayne, G. 4904
- Mayo, A. P. 565, 2978
- Mayo, E. E. 308
- Mayo, R. F. 1129
- Mazot, P. 5123
- Mazurkiewicz, Z. 2014, 4364
2347
- Mazurov, D. Y. 4883
- McAdams, H. T. 400
- McBride, B. J. 3087
- McBride, L. E., Jr. 3087
- McCabe, W. L. 2652
- McCaig, I. W. 3975
- McCamay, R. E. 657
- McCann, R. A. 4893
- McCarthy, J. F., Jr. 6565
- McCausland, I. 1279
- McChesney, M. 504, 5880
- McCloud, J. L., III 5979
- McClure, F. T. 1805, 3001
6066
- McCollum, P. A. 3666
- McComb, H. G., Jr. 5671
- McConvile, D. D. 2707
- McCormick, C. W. 2560
- McCormick, F. R. 7338
- McCourt, F. R. 2381
- McCoy, E. E., Jr. 7564
- McCracken, C. W. 2474
- McCue, G. A. 2430, 2440
- McCuen, P. A. 417, 418
1165
- McCullough, E. M. 6409
- McCullough, G. B. 987
- McDaniels, D. L. 247
- McDougall, D. 1196
- McDuffie, R. S. 5496
- McElman, J. A. 4144, 7473
- McFadden, J. A. 1251
- McFarland, B. L. 3950
- McFarland, R. K., Jr. 764
- McFarland, R. P. 749
- McGie, M. R. 472
- McGinn, J. H. 529
- McGlamery, R. M. 3996
- McGowan, J. G. 7401
- McGrath, I. A. 4125
- McGregor, D. M. 3587, 5422
- Mchedlov-Petrosian, O. P. 1477
- McHugh, C. O. 7122
- McIlraith, A. H. 3857
- McIntosh, J. E. 412
- McIvor, I. K. 7074
- McKay, C. 1500
- McKeehan, L. W. 1497
- McKenzie, K. I. 3183, 5017
7048
- McKeown, D. 3636
- McKinney, R. L. 3421
- McLaughlin, M. D. 6213
- McLellan, H. J. 7572
- McMahon, C. J., Jr. 4440
- McMahon, G. B. 4730, 4731
- McManus, H. N., Jr. 1015
- McMinn, S. J. 848
- McNamee, J. 6889
- McNeill, D. J. 408
- McNeill, W. E. 1899
- McNiven, H. D. 2448
- McNown, J. S. 273
- McPhail, C. D. 561
- McWatters, K. D. 3635
- Mead, D. J. 2043, 2044
5714
- Mead, H. R. 2189
- Meath, W. J. 636
- Mechty, E. A. 6875
- Meckelburg, H. 4538, 5116
- Medearis, K. 4384
- Medick, M. A. 2655
- Medin, S. A. 4125
- Meditch, J. S. 5533
- Mednikov, I. A. 209
- Medvedev, A. Ya. 2072, 3332
3847
- Meek, J. L. 750, 863
2506, 5822
- Meerov, M. V. 6903
- Mehro, P. K. 1496
- Mehtra, S. 527
- Mei, C. C. 5260
- Meier, R. 5167
- Meier, T. C. 1784
- Meijer, M. C. 3370
- Meinardus, G. 3660, 4902
- Meincke, H. 4338
- Meinster, P. G. 4498, 4810
- Meis, D. A. 912
- Meissner, C. J. 3316
- Meister, B. 939, 3964
- Meixner, J. 2283
- Melby, E. 15
- Melcher, B. W., II. 1646
- Melcher, J. R. 7442
- Melcon, M. A. 1165
- Melesh, R. J. 1951
- Mellor, G. L. 4620, 4621
- Mellor, P. B. 3200
- Mel'nikov, D. A. 314

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

AUTHOR INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

- Mel'nikov, V. K. 3517
 Melosh, R. J. 1232
 Melzig, H.-D. 1478
 Men, A. V. 5456
 Menahem, M. 4282
 Menard, J. Z. 4864
 Mencarelli, E. 236
 Mendelsohn, A. R. 1062
 Mendelson, A. 2419, 3150
 Mendera, Z. 4976
 Mendlar, O. J. 2339
 Menshikova, V. I. 593
 Mente, L. J. 4394
 Mentel, T. J. 2040
 Mercer, A. McD. 6568
 Merchant, D. C. 6309
 Mercouff, W. 5297
 Mereu, R. F. 188
 Meriam, J. L. 6122
 Merkell, E. Yu. 3488
 Merkulov, A. P. 4015
 Merkulov, L. G. 3867, 7089
 Merle, M. 4610, 4853
 Merman, G. A. 5680
 Merrick, V. K. 1938
 Merritt, L., Jr. 5326
 Mesch, F. 4933
 Meschler, P. A. 3705
 Meschyan, S. R. 1436, 3265
 Meshkov, S. I. 3153
 Mesood, K. B. 7392
 Meszaros, I. 5151
 Meteliuk, N. S. 856
 Metlin, V. B. 4343
 Mettam, A. R. 4946
 Mettler, E. 152, 2001
 Meyer, J. E. 416
 Meyer, M. L. 4309, 5066
 Meyer, R. E. 2776, 5255
 5256
 Meyer, R. F. 579
 Meyer, R. N. 5300
 Meyer, R. R. 1366
 Meyer, R. X. 1800
 Mezentsev, I. S. 3287
 Michael, D. H. 6537, 6732
 Michael, W. A. 3046
 Michael, W. H., Jr. 3602
 Michaels, J. E. 2425
 Michalec, J. 5072, 6396
 Michalke, A. 7262
 Michalos, J. 4356
 Michard, J. 4704
 Michel, R. 5222
 Michelberger, P. 3897
 Michels, H. H. 13
 Michels, T. E. 3071
 Michelsen, F. C. 871
 Michelson, I. 1092, 1783
 1795, 4105, 5437
 Michiyoshi, I. 438, 6079
 Michlin, S. G. 2510
 Mickelsen, W. R. 2929
 Mickley, H. S. 5223
 Middleton, H. K. 885
 Middleton, W. D. 5245
 Midgley, J. W. 5487
 Miele, A. 4176, 7236
 Migai, V. K. 3404
 Migdal, D. 5918
 Mihailescu, M. 6319
 Mihaljan, J. M. 3027
 Mikata, K. 3434
 Mikeladze, M. Sh. 7025
 Mikhailov, K. V. 1959
 Mikhailov, O. V. 4513
 Mikhailov, V. N. 7231
 Mikhailov, V. V. 1495, 2288
 2848
 Mikhailov, Yu. M. 4680
 Mikhailova, N. A. 2458
 Mikhailovskii, A. B. 3549
 Mikheev, V. S. 3877
 Mikhel', V. M. 1828
 Mikk, I. R. 3516, 6681
 Mikol, E. P. 6690
 Mikolaeva, N. I. 7167
 Mikolajczak, H. 1354, 2031
 Mikulas, M. M., Jr. 6304
 Miles, J. W. 951, 3119
 3359, 3972, 6563, 7239
 Milewski, J. 2398
 Miller, D. S. 4629
 Miller, E. T. 7109
 Miller, G. K., Jr. 5448
 Miller, G. R. 2253
 Miller, J. B. 201
 Miller, J. S. 600
 Miller, J. T. 1650
 Miller, K. S. 6878
 Miller, R. H. 6604
 Miller, R. I. 7530
 Miller, R. W. 6914
 Miller, T. D. 6109
 Milleron, N. 4605
 Milliat, J. P. 6055
 Milligan, M. W. 5914
 Milligan, R. V. 7149
 Mil'man, Yu. V. 4980, 6981
 Milne, R. D. 6768
 Milne-Thomson, L. M. 61
 Milowiz, K. 1853
 Mil'shtein, G. N. 1907
 Mimura, Y. 531, 1742
 Minamiyama, T. 4707, 7362
 Minardi, E. 510
 Minasyan, R. S. 3898
 Minata, H. 541
 Mindlin, H. 2681
 Mindlin, Ia. A. 3251
 Mindlin, R. D. 171, 172
 1956
 Minegishi, T. 2284
 Minima, V. P. 7349
 Minim, U. N. 1053
 Minkarah, I. A. 5693
 Minkowycz, W. J. 1066
 1070, 5327
 Minskii, E. M. 2172
 Mints, M. S. 5294
 Mintzer, D. 2236
 Mirajgaoker, A. G. 2150
 5168
 Mirels, H. 2226, 4134
 5985, 7425
 Miro, J. 1268
 Mironov, V. F. 6013
 Miroslavlev, E. N. 5676
 Mirkhii, I. V. 1047
 Mirsky, I. 3813
 Mischke, C. R. 6214
 Mishra, R. S. 5381
 Mishra, S. K. 7543
 Misicu, M. 1321, 1954, 1955
 Misteth, E. 7177
 Mitchell, A. H. 462
 Mitchell, C. G. B. 5620
 Mitchell, J. K. 3257
 Mitchell, J. T. 647
 Mitchell, R. G. 2282, 2814
 6599
 Mitchell, Th. P. 1353
 Mitchner, M. 2773, 7256
 Mitin, R. V. 7433
 Mit'kina, E. A. 4757
 Mitra, M. 5065, 5737
 Mitrica, I. 2667
 Mitrofanov, B. P. 7584
 Mitrofanov, V. V. 577, 578
 4190
 Mittal, M. L. 6658
 Mittenbergs, A. A. 6491
 Mityushkin, Yu. I. 4665
 Miyakawa, Y. 2488
 Mizel, V. J. 4010
 Mizoguchi, K. 2590, 6998
 6999
 Mizushima, T. 6050
 Mkrchants, Yu. K. 3761
 Mlotkowski, A. 134
 Modine, A. D. 1692
 Modlin, D. L. 4455
 Modzalevskaya, M. L. 3515
 Moe, M. L. 1275
 Moffatt, H. K. 4577, 4775
 Mohan, D. 1440
 Mohan Rao, D. K. 1533
 Moiseev, S. S. 1116
 Moiseeva, R. S. 4966
 Moissis, R. 3518, 3520
 Mok, C. H. 6128
 Mokadam, R. G. 4576
 Molchanov, E. I. 4715
 Molder, S. 4770
 Molian, S. 2719
 Mollo-Christensen, E. 354
 Molotilov, B. V. 4468
 Molotkov, L. A. 5694
 Momontov, M. A. 5284
 Monaghan, J. 6648
 Monaghan, M. T. 6724
 Monakhov, N. M. 7237
 Monch, E. 5098
 Mondt, J. R. 6707
 Monferran, L. 5189
 Monforton, G. R. 3057
 Monta, W. J. 2213
 Montague, L. D. 47
 Montes de Oca, R. A. 2438
 Montgomery, D. 5370, 6097
 Montgomery, K. M. 4773
 Monti, R. 5913
 Moor, D. I. 1837
 Moore, D. W. 2790
 Moore, G. G. 1516, 3838
 Moore, J. H. 248
 Moore, K. C. 3375
 Moore, P. J. 7109
 Moore, R. L. 1728
 Moore, S. E. 3768
 Moran, F. J. 2556
 Moran, J. P. 4563
 Mordchelles-Renquier, G. 1036
 Morduchow, M. 2220, 3963
 Moreau, R. 5188, 5359
 Morecki, A. 4524
 Morel-Seytoux, H. J. 7561
 Moretti, G. 2761
 Morgado, C. M. P. 3414
 Morgan, C. J. 3504
 Morgand, P. 3839, 4487
 Morgenthaler, G. W. 1179
 Morgun, N. G. 5159
 Mori, A. 1110
 Mori, E. 3810
 Mori, H. 619, 1219
 3050, 7597
 Mori, M. 807
 Mori, T. 5982, 6633, 6634
 Mori, Y. 3434
 Morioka, S. 1593, 2755
 Morley, A. W. 2646
 Morley, L. S. D. 3177
 Morlier, P. 5751
 Moroz, A. I. 1880
 Moroz, V. I. 605
 Morozov, A. D. 3451
 Morozov, A. I. 1099
 Morozov, B. A. 5146, 6489
 Morozov, E. M. 4154
 Morozov, N. F. 6303
 Morozova, E. A. 831
 Morrall, J. C. 3465
 Morris, E. L. 6865
 Morris, G. J. 364, 4410
 Morrison, J. A. 6792
 Morrison, R. B. 4088
 Morrow, W. M. 4348
 Mort, K. W. 380, 7308
 Mosely, J. D. 3616
 Moser, H. 5974
 Moses, H. L. 2792
 Moskalenko, A. M. 4679
 Moskalenko, Yu. Ye. 4291
 Moskowitz, G. D. 5808
 Mosner, P. 40
 Mos'pan, N. E. 894
 Moss, G. F. 7343
 Mossakovskii, V. I. 2565
 6346
 Most, H. J. 2126
 Mosteller, G. G. 378
 Mostkov, M. A. 272
 Mote, C. D., Jr. 2081
 Motley, R. W. 514
 Motosh, N. 7589
 Motovilovets, I. A. 4803
 Motulevich, V. P. 1021, 1606
 Motz, H. 1106
 Moulton, R. W. 2165
 Mountain, A. R. 5304
 Movsisyan, L. A. 4383
 Mow, C. C. 2652, 2656, 4394
 Moxon, D. 7088, 7472
 Moyar, G. J. 1322
 Moyer, C. A. 4306
 Moynihan, J. R. 6267
 Mozgarovskii, N. S. 5413
 Mozingo, R. R. 6988
 Mroz, Z. 3167, 5644, 6291
 Muchnik, G. F. 4721, 6655
 6656
 Muckenfuss, C. 2196
 Muckler, F. A. 4941, 4942
 5569
 Mucuoglu, M. C. 3294
 Mueller, N. H. G. 6621
 Mueller, R. R. 4831
 Mugnier, D. 4488
 Muir, K. 1462
 Mukhametzyanov, F. M. 2463
 Mulin, N. M. 2704
 Mullen, J. F. 7425
 Muller, K.-H. 3023, 4031
 7562
 Mellersdorf, U. 104
 Muncey, R. W. 574, 6015
 Munday, G. 5061
 Mundy, J. N. 2856
 Munford, C. 6805
 Munick, H. 4824
 Munin, G. 4852
 Munk, W. H. 2253
 Munse, W. H. 841, 1448
 1523, 1524, 1525
 Munson, D. E. 7121
 Munson, T. 6667
 Munteanu, I. 2711
 Muntjewerf, J. J. 4876
 Mura, T. 5129
 Murai, T. 828
 Murakami, Y. 1657
 Muralidhar, D. 5859, 6504
 7210
 Muranaka, A. 5758
 Murata, S. 2264, 2265
 2266, 2267, 3983
 Muratov, G. E. 1539
 Murdoch, M. L. 137
 Murgai, M. P. 515, 1043

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Muromkin, Yu. A. 4798
 Murphy, C. H. 1649
 Murphy, G. J. 1275
 Murphy, J. F. 4178
 Murphy, J. S. 3969
 Murray, N. W. 6340
 Murray, S. F. 1858
 Murray, H. N. 363, 3595
 Murthy, M. V. V. 4535
 Murty, A. V. S. 2855
 Murzewski, J. 4976
 Murzinov, I. N. 6006
 Musatov, V. V. 6616
 Musen, P. 1792, 3604
 5441, 6135
 Musik, A. K. 5385
 Mustafa, M. R. 3048
 Mustafaev, V. V. 598
 Muvdi, B. B. 7168
 Muzzey, R. J. 1701
 Myatt, D. J. 6476
 Myer, H. G. 1681, 3914
 Myers, G. E. 892, 2882
 Myers, J. E. 1689, 2307
 Myers, P. S. 1079
 Myrkin, V. G. 190, 7104
 Mysliwetz, F. 901, 2762
 Myursepp, P. 759
- Nachtshaim, P. R. 5934
 6574
 Nadaud, L. 6068
 Nag, K. R. 4399
 Nagai, K. 5770
 Nagao, F. 2923, 3991
 Nagevich, Yu. M. 7169
 Naghdi, P. M. 726, 3194
 5639, 6322, 6966, 6967
 Nagler, H. 640
 Nagler, R. G. 2491
 Nagy, J. V. 3012
 Nagy, J. A. 5705
 Nakada, T. 5573, 6926
 Nakae, S. 3902
 Nakai, S. 1585
 Nakajima, H. 7491
 Nakamura, Y. 5736
 Nakane, T. 2094
 Nakao, Y. 3802
 Nakashima, S. 1105
 Nakov, T. 4725
 Nall, B. H. 6721
 Nanda, R. S. 423, 1044
 1103, 7260
 Napoli, L. S. 503
 Napolitano, L. 5931
 Napolitano, L. G. 2320, 2843
 Narahari Achar, B. N. 4008
 Narasimha, R. 918
 Narasimhan, M. V. 6171
 Narayanaswamy, K. 6171
 Nardacci, J. L. 1562, 5307
 Nardo, S. V. 452
 Narendra, K. S. 3087, 4931
 Nariboli, G. A. 1308, 5364
 Nartov, S. V. 4128
 Naruoka, M. 5824
 Nash, J. 3954
 Nash, J. F. 904, 5225, 7265
 Naslin, P. 632
 Nastase-Ghia, A. 2763
 Natanson, A. K. 7504
 Natanzon, M. S. 2033
 Nath, B. 1892
 Natrella, J. V. 4286
 Natrella, M. G. 1878
- Naugol'nykh, K. A. 2999
 Naumann, E. C. 7164
 Naumann, R. J. 3598, 6816
 Naumova, L. G. 3762
 Navaratna, D. R. 1146, 6960
 Navrotskii, D. I. 2046
 Navrotskii, I. V. 3866, 5803
 Nayler, G. H. F. 1137
 Nayroles, B. 4505
 Nazarov, G. I. 1595, 4108
 7232, 7233
 Nazarov, I. S. 471
 Nazarov, N. A. 5011
 Naze, J. 501
 Naziyev, Ya. M. 7358
 Neal, B. 941, 1160
 3589, 5421
 Neal, B. G. 1498, 4359
 Neal, L., Jr. 5957
 Neckar, F. 2672
 Nederveen, A. 7137, 7140
 Neff, W. J. 2438
 Negishi, K. 6715
 Neher, H. V. 653
 Neidigh, R. V. 2400
 Neifert, H. R. 4306
 Nekhendzi, E. Yu. 6787
 Neklyudov, I. M. 4473
 Nelson, C. R. 2642
 Nelson, C. W. 2485
 Nelson, D. M. 3448, 7318
 Nelson, F. C. 160
 Nelson, R. E. 3950
 Nelson, T. M. 2730
 Nelson, W. C. 2971
 Nemchinov, I. V. 3514
 Nemeth, G. 1026
 Nemirovskii, Yu. V. 5633
 6975
 Nemoto, S. 985
 Nenyukov, V. P. 7154
 Nerem, R. M. 1682, 3504
 Nerge, G. 1512
 Nesline, F. W., Jr. 2552
 Nestlerode, J. A. 7436
 Netrebko, V. P. 7148
 Neu, J. T. 4841
 Neuber, H. 680, 5581
 Neubert, H. K. P. 2041
 Neubert, V. H. 5041
 Neufeld, J. 6746, 7457
 Neumaier, F. 5974
 Neumann, D. L. 7548
 Neumann, H. E. 1672
 Neumark, S. 2572, 6791
 Neumuller, M. 6507
 Neusen, K. F. 6575
 Neuts, M. F. 6202
 Nevill, G. E., Jr. 1032
 New, R. W. 5520
 Newcomb, J. F. 480
 Newhouse, D. L. 235
 Newitt, D. M. 5061
 Newman, B. G. 6601
 Newman, M. 1152, 1764
 2618, 2961, 4156, 7479
 Newman, P. A. 2187
 Newsham, A. D. 6512
 Newton, C. J. 1465
 Newton, R. N. 1639
 Newton, R. R. 5427
 Ng, C. W. 6014
 Nguyen Van Quay, G. G. 4642
 Nicholls, J. A. 4088
 Nicholls, R. E. 6238
 Nichols, G. B. 482
 Nicholson, R. B. 4777
 Nickel, K. 1616
 Nickels, W. 1130
 Nicklas, J. C. 662
- Nickola, W. E. 6425
 Nicoll, W. B. 2866
 Niedenfuhr, F. W. 758, 1791
 1952
 Niedenhoff, H. 5827
 Niederstadt, G. 237
 Nielsen, J. N. 5423
 Nielsen, M. P. 3195
 Nielsen, N. N. 5056
 Nielsen, R., Jr. 871
 Niemi, N. J. 1291
 Niemz, W. 6215
 Niesytto, J. 1138
 Nigam, L. N. 2742
 Nigam, R. C. 2976
 Nightingale, J. M. 5555
 Niiler, P. P. 4735, 4736
 6026
 Nikhailov, N. A. 277
 Nikiforov, A. S. 7093
 Nikishin, A. A. 5015
 Nikitenko, N. I. 2315
 Nikitin, V. I. 836
 Nikitin, V. M. 5642
 Nikitin, Yu. M. 4343
 Nikitina, A. K. 543, 546
 Nikolau, Ed. 5778
 Nikol'skii, A. A. 1596, 2193
 2786, 2938, 5209, 7245
 Nilakantan, P. 988
 Nimir, A. E. 6179
 Ninomiya, K. 7577
 Niua, N. A. 7502
 Nishikawa, K. 1042
 Nishimura, M. 3099
 Nishioka, K. 6715
 Nishiaki, N. 4630
 Nishiyama, T. 1847
 Nisitani, H. 3197, 6263
 Nissan, A. H. 1562, 5307
 Nissen, P. 7112
 Nistratov, N. I. 7498
 Nita, M. M. 6806
 Nitta, A. 2602, 2603
 Niu, K. 2959
 Niyiski, Kh. Yu. 5318
 Niyomthai, C. 6626
 Noble, B. 10
 Nochevkina, I. I. 5199
 Nocilla, S. 7278
 Noerdlinger, P. D. 2941
 Noguchi, Y. 1105
 Noh, W. F. 644
 Noiseux, D. U. 7547
 Noll, R. B. 58
 Noll, W. 2293, 6780
 Nomofilov, E. V. 3492
 Nomura, Y. 6249
 Nonaka, T. 7491
 Nonweiler, T. R. F. 2480
 Norbury, J. F. 2518
 Nordberg, W. 2985
 Norden, H. V. 1664
 Nordgren, R. P. 726, 3194
 Nordmark, G. E. 6420
 Nordon, P. 4730, 4731
 Norkin, K. B. 2517
 Norlund, R. L. 205
 Norman, A. 4068
 Norman, W. S. 1784
 Norminton, E. J. 7369
 Norris, C. B. 3205
 Northwood, T. D. 2034
 Nosenko, V. I. 7055
 Nosov, A. Ya. 4688
 Nott, J. A. 6467
 Nougaro, J. 4562
 Novak, O. 3431
 Novichkov, Yu. N. 4361
- Novikov, I. I. 1679
 Novikov, L. Z. 5591
 Novikov, N. I. 3947
 Novikov, N. P. 915
 Novikov, N. V. 7090
 Novikov, P. A. 2885, 2894
 Novosad, R. 7525
 Novosil'tseva, N. I. 3861
 Novotny, J. L. 3493
 Novozhilov, V. V. 4240
 Nowacki, W. 1302, 1765
 4148, 4411, 4412
 Nowak, E. 6572
 Nowak, H. 4188
 Nowinski, J. 173, 1356
 Nowinski, J. L. 781, 4375
 5692, 6776
 Nowlin, W. D. 2896, 7572
 Noyes, R. C. 1057
 Nunes, J. 5603
 Nusbaum, W. J. 4667
 Nussle, R. C. 440
 Nutant, J. 341
 Nutt, L. P. 274
 Nutting, B. W. 6914
 Nyiri, A. 7305
 Nylander, H. 7036
 Nysmith, C. R. 2992

N

O

- Oates, G. C. 3536
 Oates, W. 2452
 Oberai, M. M. 5205, 5906
 Oberg, L. 5096
 Oberman, C. 7426
 Obermayer, R. W. 4941
 4942, 5569
 Obery, L. J. 386
 Oblivin, A. N. 1611, 7249
 Oborotov, I. P. 6522
 O'Brien, E. E. 954, 2384
 O'Brien, W. T. 5614
 Obukhov, G. G. 7567
 Ochi, Y. 7085, 7086
 O'Connell, R. F. 1893
 O'Connor, C. 4355
 O'Connor, J. J. 3650
 Ocvirk, F. W. 2724
 Odar, F. 7223
 Odeh, A. S. 1813
 Odembrett, C. L. 2639
 Odinets, A. V. 7027
 Oding, I. A. 1329, 4494
 5124, 5791, 5805
 Odintsov, M. M. 4346
 O'Donnell, W. J. 744, 1973
 2596, 6945
 Odqvist, F. K. G. 4971, 5139
 Oehman, W. I. 6529
 Ogawa, G. 827
 Ogawa, K. 2725
 Ogawa, S. 2064
 Ogibalov, P. M. 7073
 Ogilvie, T. F. 367, 3427
 Ogino, S. 2132
 Ogurtsov, K. I. 191
 Oguzoreli, M. M. 6231
 O'Hara, G. J. 5746
 Ohashi, H. 4660
 Ohji, M. 949
 Ohkawa, T. 533
 Ohlsson, G. O. 3979
 3980, 3981
 Ohman, L. H. 182, 1134
 5252
 Ohmstede, W. D. 6177

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

AUTHOR INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

- Ohmura, H. 1515
 Ohnami, M. 541, 542
 Ohta, S. 3991
 Ohtsuki, T. 6216
 Ojalvo, M. 3782
 Okabe, J. 930
 Okada, M. 6767
 Okamoto, M. 5482
 Okamura, H. 1398
 Okamura, K. 1228
 Okapuu, U. 2925
 Okazaki, M. 4653
 Okazaki, T. 5401, 5402, 5451
 Okhotsimskii, D. E. 317
 Oki, C. 7354
 Okrainets, P. N. 4316
 Okuda, T. 2387, 4117, 7453
 Okuno, A. F. 3505, 7403
 Okushima, M. 2107
 Olcer, N. Y. 6647
 Oldenburger, R. 1276, 6238
 Oleinik, I. G. 7192
 Oleinik, N. V. 3287
 Oleinik, O. A. 4617
 Olimpiev, V. I. 4895
 Oliver, D. A. 6613
 Oliver, F. W. J. 6205
 Olk, T. F. 855
 Olmstead, W. E. 1052
 Olson, D. N. 558
 Olson, R. A. 3558
 Olson, R. M. 2235
 Olsson, S. 2630
 Oliver, F. W. J. 1868
 Omberg, R. A. 5798
 Omel'cenko, K. G. 415
 Omi, M. 3016
 Onat, E. T. 120, 1484
 Ondracek, E. 2569
 O'Neill, J. B. 914
 O'Neill, M. E. 2157
 Ong, J. N., Jr. 1083
 Ong, R. S. B. 2374
 Onishi, G. 3633
 Ono, S. 996
 Onoe, M. 800
 Onufriev, A. T. 6674
 Oosthuizen, P. H. 5870
 Oura, N. 3234
 Opik, E. J. 1799
 Oppel, G. U. 231, 1496, 7151
 Oppenheim, A. K. 1189, 7527
 Oppenheim, M. A. K. 5219
 Oraevskii, V. N. 3547
 Oravas, G. Ae. 1338
 Orbeck, F. 775
 Orchard, S. E. 967
 Orcutt, F. K. 7600
 Ordanovich, A. E. 5522
 Orford, R. J. 2540
 Orkisz, J. 1347, 4991
 Orlík-Ruckemann, K. J. 2016
 Orlog, A. N. 1320
 Orlov, G. 4987
 Orlov, P. G. 7188
 Ornatskii, A. P. 441
 Ornhagen, L. 4522
 Oroveanu, T. 3019
 Orrak, G. T. 3281
 Ortloff, C. 4634
 Orudzhaliiev, E. A. 3945
 Orurk, I. A. 2525
 Osborn, J. 5955
 Osborn, J. R. 7415
 Osborne, M. R. 7588
 Oser, H. 708
 Osetinskii, Yu. V. 5045, 5048
 Oshima, K. 2379
 Oshima, M. 4675
 Osin'ski, Z. 6374
 Osipov, I. O. 4401, 4405
 Osipov, K. A. 1332
 Osipov, M. M. 6316
 Osovskii, L. M. 3095, 6241
 Oster, G. 6431
 Osterberg, J. O. 203
 Osterle, F. 4631
 Osternik, E. S. 5100
 Ostrovskaya, S. E. 4718
 Ostrovskii, A. P. 7194
 Ostrovskii, G. M. 3107
 Ostrovskii, L. A. 4119
 Ostrowska, J. 4402, 6296
 Oswatitsch, K. 1415
 Ota, H. 2024, 2629, 3227
 Ota, T. 3184, 5049
 Otani, M. 3579
 Otis, D. R. 2939
 Otmakhova, I. P. 1591
 Otocka, E. P. 4548
 Otsuka, S. 3988, 3989
 Otterman, J. 4173
 Otto, E. W. 440, 2730, 6696
 Oudart, Ad. 5224
 Oudshoorn, H. M. 6509
 Overbye, V. D. 1079
 Ovsyannikov, B. M. 4468, 5109
 Owen, B. S. 3911
 Owen, M. 7139
 Owen, P. R. 7375
 Oxenius, J. 510
 Oxford, J. 142
 Oxley, M. 4449
 Oxley, P. 213
 Oxley, P. L. B. 6406, 6407
 Ozbek, T. 4989
 Ozoklav, H. 7230
- P**
- Pacakova, I. 195
 Pacitti, T. 770
 Pack, D. C. 6564
 Pacsirszky, J. 7565
 Padovani, C. 6062
 Pae, K. D. 97
 Pagano, V. H. 7122
 Page, V. R. 7340
 Page, W. A. 6039
 Pai, D. H. 1464, 1506
 Pai, S. -I. 628, 1712
 Pakhomov, L. A. 4873
 Pakhomov, N. M. 2443
 Paleev, I. I. 2360
 Paley, Z. 6649
 Palkin, B. A. 3861
 Palladino, R. W. 1740
 Pallant, R. J. 2278
 Palpei, I. 4806
 Pallone, A. 429, 7235
 Palmer, R. W. 4781
 Pal'mov, V. A. 2056, 4957
 4959, 6919, 6946
 Pan, C. H. T. 1226, 7587
 Pan, H. H. 161, 1362, 3225, 5748, 6268
 Pan, S. K. 4301
 Panc, V. 2713
 Panchanathan, S. 7110
 Pandit, G. S. 2706
 Panferov, K. V. 3891, 5153
 Panlilio, F. 3893
 Panov, A. V. 7504
 Pant, B. 2089, 2091
 Pant, J. C. 5381
 Pao, Y. -H. 2656, 5735, 6083
 Papadopoulos, M. 2657
 Papadopoulos, V. M. 2825
 Papazian, N. 1486
 Papirno, R. 763
 Papp, C. A. 1083
 Pappas, C. C. 3505, 7403
 Pappert, R. A. 6748
 Paramonov, P. A. 7534
 Paria, G. 3795
 Paris, P. 3845
 Park, C. 4042
 Parker, J. 3858, 5785
 Parker, J. E. 3204, 5826
 Parker, M. N. 1837
 Parker, O. J. 1939
 Parker, P. S. 7173
 Parker, R. J. 4812, 6871
 Parkin, B. R. 3646
 Parkinson, A. G. 165
 Parks, V. 2084, 5102
 Parkus, H. 3591
 Parlett, B. 6880, 6891
 Parlett, L. P. 6789
 Parmakian, J. 7016
 Parmer, J. F. 6711
 Parmerter, R. R. 2007
 Parr, C. H. 2416
 Parr, O. 3935
 Parr, Q. 4628
 Parrish, E. B. 1692
 Parrott, T. L. 1810
 Parry-Jones, G. 229
 Parsons, W. D. 2982
 Parsy, F. 5604
 Partheniades, E. 6833
 Parton, V. Z. 831
 Pashkov, O. O. 5769
 Pasiku, L. 7383
 Paslay, P. R. 790, 1529, 2727, 3224, 5658
 Passell, T. O. 7530
 Paszkowski, S. 1921
 Pataraya, A. D. 2376, 3545
 Patel, S. A. 87, 89, 3739
 Patel, V. J. 6402
 Patin, P. 6465
 Patmor, G. O. 3950
 Paton, A. D. 1359
 Patterson, G. D., Jr. 7156
 Pattle, R. E. 6648
 Patullo, R. N. M. 1837
 Pauer, R. 4543
 Paul, B. 122, 1794
 Paul, E. W. 3609
 Paul, H. S. 1413, 5042
 Paulauskas, Ts. Ts. 6923
 Pavilainen, V. Ya. 869
 Pavliichuk, G. A. 3332
 Pavlov, I. M. 3298, 4467
 Pavlov, K. B. 4787
 Pavlov, P. A. 3726
 Pavlov, V. G. 331
 Pavlov, V. V. 5545
 Pavlova, A. V. 6931
 Pavlova, Z. I. 6433
 Pavlovskaya, N. T. 3649
 Pavlovskii, Yu. N. 2208
 Pawlicki, J. 1894
 Pawlik, E. V. 524
 Pawłowski, Z. 1451
 Paxhia, V. B. 3588
 Payne, D. J. 7004
 Payne, L. E. 1298, 3138, 6254
- Payton, R. G. 1426, 7478
 Peabody, P. R. 4825
 Peach, R. W. 3787
 Percy, C. M. 1253
 Pearlstein, E. 1455
 Pearsall, I. S. 980
 Pearson, A. E. 1283, 5558
 Pearson, H. 4670
 Pearson, J. H. 2080
 Pearson, J. T. 6028
 Pearson, W. E. 2194, 7289
 Pechau, W. 2219
 Pechorina, I. N. 6232
 Peckham, D. H. 2275
 Pedlosky, J. 2472
 Pedroli, R. 879
 Peek, R. L., Jr. 3228
 Pegel, B. 6725
 Pei, D. C. T. 1677
 Pekelis, G. D. 3885
 Pelecdi, C. 254, 2723, 6484
 Pelepeichenko, I. P. 1039
 Pelevin, V. S. 2403, 6061
 Pel'por, D. S. 3124
 Pender, E. B. 4532
 Pendered, J. W. 5724, 5725
 Pennelegion, L. 2840, 7347
 Penner, S. S. 1703
 Penning, F. A. 3840
 Pennington, J. E. 54
 Penny, R. K. 123, 6317
 Penrod, E. B. 603, 3487
 Penzien, J. 5013, 5014
 Penzo, P. A. 7519
 Peralta, L. A. 1052
 Percival, N. P. 6908
 Percy, J. H. 6960
 Percy, M. J. 3200
 Peredy, J. 6448, 6449
 Pereira, A. N. G. 1003
 Perekrestov, A. V. 5572
 Perel', V. I. 4784
 Perel'dik, E. N. 4271
 Perel'man, I. I. 3682, 3703
 Perel'man, T. L. 6005
 Perevertun, V. V. 2361
 Perilstein, W. L. 1222
 Perkas, M. P. 3750
 Perkins, H. C. Jr. 6659
 Perkins, R. L. 6372
 Perlmutter, M. 432, 436, 2868, 7384
 Perry, A. E. 3957
 Perry, D. H. 3465
 Perry, T. W., Jr. 566
 Persen, L. N. 1889
 Persson, H. 3556
 Persson, S. L. 6534
 Pervozvanskii, A. A. 5553
 Perzyna, P. 6294, 7098
 Pesek, R. 648
 Peshchanskaya, L. G. 4766
 Peskin, R. L. 507
 Peslyak, Yu. A. 6315
 Pestel, E. 2116
 2505, 3656
 Petcu, V. 3173, 3290
 Peters, R. W. 2353
 Petersen, E. E. 2917, 3369
 Peterson, H. A. 231
 Peterson, J. J. 4486
 Peterson, J. P. 748
 Peterson, J. W. 3635
 Peterson, M. B. 1858
 Peterson, W. P. 4710
 Petit, J. 4767
 Petka, Z. 131
 Petrasek, D. W. 544

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

AUTHOR INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

63

- Petash, D. A. 440, 2730
 Petrov, N. G. 4193
 Petrov, V. A. 24
 Petrov, V. V. 4345
 Petrov, Yu. P. 117, 118
 Petrova, F. P. 325
 Petrova, K. V. 2704
 Petrovic, R. 42
 Petrusevich, A.I. 4889, 4891
 Petschek, H. E. 518, 6758
 Petukhov, B. S. 2862
 Petviashvili, V. I. 7451
 Peube, J.-L. 5334
 Peyret, R. 5384
 Pezdirtz, G. F. 6447
 Pfannkuch, H. O. 4209
 Pfeifer, G. 17
 Pfeiffer, A. 3100
 Pfendt, E. 183
 Pfluger, A. 2006
 Phadke, B. S. 1360
 Phelan, R. M. 7586
 Phillips, A. 258, 1318
 Phillips, C. J. 6446
 Phillips, H. 6063
 Phillips, O. M. 1625, 2252
 Phillips, W. P. 307, 5895
 Phinney, R. 925, 7357
 Pion, T. H. H. 799, 4974
 5128, 7023
 Pickard, W. F. 1540
 Pickett, A. G. 7133
 Pick-Gutmann, M. 4423
 Piechocki, W. 4997
 Piehler, H. R. 3280
 Pierol, A. G. 7087
 Pierucci, M. 6144
 Pietrusiewicz, S.A. 4448
 Pietrzykowski, J. 5819
 Pifko, A. B. 1352
 Pilant, W. L. 6384
 Pilch, M. 873
 Pillai, N. N. 6505
 Pinkley, H. F. L. 4374
 Pinkus, O. 375
 Pinsker, W. J. G. 4645
 Pinskii, Ya. M. 4784
 Pinsley, E. A. 4135
 Pipitone, S. J. 5832
 Pipkin, A. C. 1652
 3918, 4545
 Piquemal, J. 4656, 5164
 5187, 5976
 Pirverdyan, A. M. 5949
 Piryazev, D. I. 3837
 Pisacane, V. L. 1948
 Pisarenko, G. S. 3216, 4378
 Pischnik, S. 3158
 Pistiner, J. S. 551
 Pitaevskii, L. P. 2197
 Pittel, B. G. 6916
 Piuz, F. 5583
 Plamondon, J. A. 1071
 Planchais, M. 4693
 Plank, R. 1009, 5991
 Planovskii, A. N. 1693
 Plateau, J. 4435
 Plato, G. 6085
 Platonov, P. N. 383
 Platt, A. 2518
 Platt, G. 3116
 Platus, D. L. 6277
 Plesset, M. S. 5963
 Pliskin, I. 1194
 Pliss, V. A. 6906
 Plotkin, E. R. 4715
 Plotnikova, G. V. 157
 Plowman, J. M. 5130
 Plunkett, R. 1399
 Plust, H. G. 2285
 Podol'skii, M. E. 4896
 Podolsky, B. 6890
 Podolsky, Yu. Ya. 3649
 Podstrigach, Ya. S. 5406
 5408, 5409
 Pod'yapol'skii, G. S. 5064
 Pogodin-Alekseev, G.I. 5789
 Pogorelov, A. V. 740, 1382
 1383, 1384, 1386
 3792, 5034
 Pogorelov, P. D. 4477
 Pogosyan, Kh. P. 1208
 Pohl, R. W. 3052
 Poirier, Y. 4120
 4800, 5397
 Pokhil, P. F. 6712
 Polak, E. 3709
 Polak, L. S. 3567
 Polak, P. 4768
 Polakowski, N. H. 5602
 Polasek, J. 4243
 Polhamus, E. C. 1164
 Polkanov, L. D. 975
 Polkovnikov, V. I. 6073
 Pollard, D. 973
 Poller, G. 5828
 Polmear, I. J. 840, 1476
 Polonksii, M. V. 6373
 Polonksii, Ya. E. 2257
 Polovin, R. V. 5382, 7464
 Polozhentsov, V. S. 7495
 Polukhin, P. I. 4485
 Polukhin, V. P. 255
 Polyak, G. L. 1683
 Polyakov, Yu. A. 4757
 Polyanskii, V. A. 1046
 Polyatskin, M. A. 470
 Pond, S. 2808
 Ponomarenko, Yu. B. 1114
 Ponomarev, B. V. 4334
 Ponomarev, Yu. V. 6895
 Pons, L. 5126
 Poorooshab, H. B. 1431
 Pope, R. B. 4080
 Popel', S. I. 2100
 Popereka, M. Ya. 4892
 Popken, H. 5140
 Poplavkin, A. S. 3877
 Popov, E. P. 1271
 5013, 6225
 Popov, G. Ia. 1310, 3729
 Popov, M. P. 2667
 Popov, N. I. 3741
 Popov, N. N. 4133
 Popov, S. G. 4566
 Popov, V. A. 2200
 Popov, V. M. 3105, 4275
 4930, 5562
 Popov, V. Ya. 3534
 Popov, Ya. P. 7335
 Popp, S. 3938
 Port, W. G. A. 3465
 Porter, B. 771
 Porter, L. D. 4407
 Portnoy, H. 6550
 Poskitt, T. J. 100
 Posselov, G. A. 284
 Posselov, L. A. 6394
 Post, D. 2685
 Postl, J. 864
 Postolovskii, S. N. 379
 Potemkin, A. E. 1944
 Potter, J. H. 4014
 Potter, J. L. 1650
 4607, 5915
 Pottle, C. 6913
 Pouille, J. 3024
 Pouliquen, J. 4856
 Pouring, A. A. 6049
 Povarnin, P. I. 3488
 Povkh, I. L. 1721
 Povolotskii, L. V. 7501
 Powdrill, B. 7477
 Powell, A. 2995, 6818
 Powell, J. W. 3654
 Powell, R. W. 1025
 Power, G. 2386, 5853
 Powers, B. G. 5954
 Powers, E. I. 3509
 Powers, S. A. 914
 Powling, J. 1085
 Pozdyakov, A. A. 3299, 7032
 Pozharitskii, G. K. 2738
 Pozina, R. A. 4153
 Poznyak, E. L. 6191, 7592
 Poznyak, Z. L. 3230
 Pozzi, A. 1573
 Prabhu, S. S. 2117, 2118
 Prasad, C. 7075
 Prasanna, K. V. 603
 Prasolov, P. F. 3888
 Prats, M. 1817
 Pratt, A. W. 2860
 Pratt, K. G. 363
 Pratt, M. J. 2784
 Pratusevich, Ya. A. 7078
 Prawel, S. P., Jr. 5659
 Predeleanu, M. 3925
 Predvoditelev, A. S. 4600
 6058
 Preger, L. M. 7026
 Presendorfer, R. W. 1, 12
 Presley, L. L. 4709
 Presnyakov, A. A. 5613
 Price, B. 4187
 Price, C. 2853
 Price, E. A. 5313
 Price, E. W. 2918
 Price, H. E. 4816, 6925
 Price, H. L. 1772, 1773
 2244, 2245, 6447
 Price, P. 7285
 Price, R. D. 612
 Price, T. G. 6809
 Priddle, R. A. 2662
 Pride, R. A. 4838
 Priels, R. 7068
 Prigorovskii, N. I. 1457
 Prikhod'ko, E. V. 5763
 Prikhod'ko, V. N. 5800
 Primrose, E. J. F. 2130, 2131
 Pringle, R., Jr. 5443
 Priolo, D. 1493
 Pris, M. R. 3853
 Prisekin, V. L. 6115
 Pritchard, E. B. 554
 Pritchard, R. E. 7236
 Pritvits, N. A. 5861
 Probstein, R. F. 6104
 Progelhof, C. 3459
 Prokop'ev, K. A. 5051
 Pronikov, A. S. 4884
 Pronin, A. D. 4478
 Prosnak, F. 6886
 Proskuriakov, A. P. 2531
 7059
 Proskurin, V. F. 4835
 Proskuryakov, Yu. G. 4429
 Prosnak, W. J. 3364
 Protopopov, N. A. 198
 Protskin, A. E. 7377
 Protter, M. H. 644
 Prudnikov, M. I. 7155
 Pruscheck, R. 2346
 Prych, E. A. 6543
 Przemieniecki, J. S. 859, 6459
 Psarouthakis, J. 2330
 Pubanik, V. P. 4919
 Pugh, H. 6978
 Pukhov, H. Ye. 5521
 Purdy, C. M. 6945
 Puri, N. N. 1908, 1909
 2524, 3109, 4929
 Puri, P. 6784
 Purushotham, G. 2750
 Purushotham, J. 3834
 Pushkarev, O. E. 2393
 Pustovoit, V. I. 2948
 Putnam, A. A. 5510
 Putsillo, V. P. 6918
 Putzger, D. 6360
 Puzanov, A. 5259
 Puzirin, L. G. 3332
 Puzyrewski, R. 7314
 Pyatnitskii, E. S. 2532
 4274, 6239
 Pyle, J. S. 2276
 Pyne, J. A. 2304
 Pyron, B. O. 2421
 Pyshkin, I. V. 3083
 Pytel, A. 3152
 Pyt'ev, Iu. P. 1871
 6018

Q

- Quarmby, A. 6018
 Quay, P. M. 5995
 Queijo, M. J. 4944
 Quemada, D. 5371
 Quigley, H. C. 3584
 Quincey, V. G. 2833
 Quinlan, P. M. 2585
 Quintal, B. S. 6076
 Qureshi, I. H. 1891
- R**
- Raabe, J. 4664
 Raat, J. 4627, 5202
 Raben, I. A. 1032
 Rabets, V. L. 709
 Rabinovich, A. L. 5015
 Rabinovich, I. M. 3799
 Rabinovich, M. S. 4793
 Rabinowicz, V. A. 401
 Rabinowitz, P. 1356
 Rabotnov, Yu. N. 4973
 5595, 6975
 Radchenko, M. I. 1662
 Radenovic, D. 715
 Rader, H. 376, 1639
 Radhakrishna, H. C. 3141
 3142
 Radkowski, P. P. 745
 Radlo, Gh. 3418
 Radok, J. R. M. 414
 Radovskii, L. I. 2534
 Radtke, L. P. 919, 1186
 Radtsig, Ya. A. 851
 Radu, A. 5340
 Radzimovsky, E. I. 1851
 Rae, D. 3647
 Rae, W. J. 1618
 Raff, S. J. 3002
 Raghuvaran, M. 1438
 Ragsdale, G. C. 2435
 Ragsdale, R. G. 2812, 2897
 6042, 7420
 Ragul'skis, K. M. 6359
 Raihan Ali, M. 6860
 Raikin, A. L. 6887

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

AUTHOR INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

- Rainbird, W. J. 2831
 Raithby, K. D. 838
 Raizer, U. D. 7010
 Rajappa, N. R. 1372, 4351
 Rajaratnam, N. 2151, 5859
 7210
 Rajeswari, G. K. 872, 931
 5156
 Raju, K. N. 7250
 Rakhaman, B. M. 80, 3862
 Rakich, J. V. 5894
 Rakovshchik, L. S. 3686
 Rakovskii, N. L. 592
 Rollis, C. J. 1019
 Ramachandra, S. 7593
 Ramachandra Rao, B. S. 5588
 Ramadhan, R. 2855
 Ramaprian, B. R. 4095
 Ramaswamy, M. A. 2760
 Ramaswamy, S. V. 7110
 Ramez, M. R. H. 6390
 Ram Mohan, T. 6983
 Ramsay, W. J. 981
 Ramsey, J. W. 6038
 Ramsey, P. W. 1941
 Ran, S. N. 7007
 Randa, M. 2061
 Raney, J. P. 2626
 Ranger, K. B. 5176
 Rankin, T. M. 5874
 Ranlet, D. 111, 5618
 Ransleben, G. E., Jr. 961
 2818, 3572
 Ranz, W. E. 6539
 Rao, A. K. 3143
 Rao, B. K. 695
 Rao, D. M. 7250
 Rao, M. R. K. 256
 Rao, V. V. 7398
 Raper, J. L. 993, 6602
 Rapier, A. C. 412
 Rapp, N. V. 5802
 Rappoport, R. M. 7022
 Rasizade, Ya. M. 95
 Rasmussen, J. G. 4846
 Rasof, B. 4905
 Rastrigin, L. A. 3231
 Raszl, K. 1026
 Rata, M. 5866
 Ratcliff, J. W. 6251, 7520
 Rathbun, A. S. 2339
 Rathna, S. L. 872, 3921
 Rathy, R. K. 1564, 3539
 3548
 Ratnam, M. V. 3258
 Ratner, I. S. 4914
 Ratner, P. 7279
 Rauch, H. E. 3696
 Raue, P. 2693
 Rauert, W. 5974
 Rautu, S. 3290
 Ravid, E. 2190
 Raw, C. J. G. 1003
 Rawlings, B. 3078
 Ray, A. K. 336, 7206
 Raychaudhuri, B. C. 7367
 Raymond, M. H. 2101
 Raynor, S. 1052
 Rayuk, V. F. 3261
 Razumovskaya, I. V. 2676
 Razzhivin, K. A. 7002
 Reader, P. D. 2932
 Ream, H. E. 7524
 Reamer, H. H. 5346
 Reardon, F. H. 7409
 Rebrov, A. K. 4057, 6037
 Rechenberg, I. 7276
 Redding, T. H. 3454
 Reddy, D. V. 1372
 Reddy, K. C. 2210
 Redei, I. 7172
 Redner, S. S. 1456, 2685
 Redozubov, D. V. 1668
 Reeber, M. D. 4072
 Reed, J. F. 348
 Reed, M. B. 1296
 Reed, S. B. 2357
 Reed, T. B. 1111
 Reed, W. H., III 608
 Reeder, J. P. 1167
 Reese, J. L., Jr. 6398
 Reeves, B. L. 905
 Regirer, S. A. 2937, 5357
 Rehanek, J. 7563
 Reichard, T. W. 3742
 Reid, J. 895
 Reid, W. P. 4029
 Reidelbach, W. 5645
 Reilly, J. P. 2887
 Reinecke, W. G. 1016
 Reinikka, E. A. 5337
 Reinitzhuber, F. 7017
 Reinschmidt, K. F. 1418
 Reisch, R. 5833
 Reissmann, H. 6773
 Reiss, E. L. 6330
 Reiss, L. P. 1063, 1628
 Reiss, R. 4903
 Reissner, E. 3763, 5637
 Reitblat, Z. V. 5589
 Reiter, G. S. 56
 Reith, H. 5710
 Reitor, J. 4518
 Rekasius, Z. V. 3097
 Rendall, J. H. 3878
 Renton, J. D. 755
 Reshetov, D. N. 3873, 4521
 Rettsker, I. Ya. 3249
 Rettig, H. 616
 Reumuth, H. 4539
 Rey-Jouvin, M. 126
 Reyle, S. P. 2220
 Reynolds, A. 2251
 Reynolds, B. W. 5832
 Reynolds, T. W. 4609, 7246
 Reynolds, W. C. 355, 417
 418, 1029, 5960, 6661
 Reztsova, E. V. 4470
 Rhyne, R. H. 7575
 Riabokon', M. P. 3941
 Ribner, H. S. 7540
 Ricardo, O. G. 1388
 Rice, J. R. 614
 Rice, L. 2456
 Rich, M. H. 6391
 Rice, S. A. 6636
 Rice, W. 3439
 Rich, G. R. 2734
 Richard, J. 5104
 Richard, R. M. 2122
 Richards, M. J. 1647
 Richards, P. I. 1862
 Richardson, A. M., Jr. 3269
 Richardson, H. H. 1857
 Richardson, J. E. 5835
 Richardson, P. D. 428
 793, 932, 1610, 1659
 3426, 3472, 4043
 Richley, E. A. 2783, 4609
 6573, 7246
 Richmond, O. 824
 Richtmyer, L. E. 1182
 Rickman, S. 4
 Ridland, D. M. 7290
 Ried, R. C., Jr. 308
 Riehl, H. 1825
 Rijken, H. 3037
 Rikhter, V. A. 3295
 Riley, D. R. 1918
 Riley, N. 937, 2799
 2807, 6752, 7271
 Riley, W. F. 4451, 6426
 Ringleb, F. O. 5177
 Rintel, L. 5229
 Ripianu, A. 4428, 5689
 Ripken, J. F. 873
 Rish, R. F. 5029
 Rissone, R. F. 5723
 Ritchie, V. S. 384
 Rittenhouse, J. B. 2491
 Rittenhouse, L. E. 7468
 Rivkin, S. L. 3478, 3486
 4025
 Rivlin, R. S. 2052, 2728
 3918, 3923, 3924, 4312
 4546, 6423, 6500
 Rizhov, O. S. 1589
 Rizvi, S. A. T. 6728
 Roach, J. R. 519
 Robbins, M. S. 2045
 Robbins, W. H. 3512
 Roberson, R. E. 670, 671
 1801
 Roberts, C. P. R. 7552
 Roberts, E., Jr. 2419
 Roberts, L. G. 3502
 Roberts, P. H. 1550
 Robertson, J. M. 1549
 Robinson, D. W. 6157
 Robinson, J. L. 263
 Robinson, L. B. 3467
 Robinson, R. N. 1462
 Robozhev, A. V. 5920
 Rocha, M. 3904
 Rockey, K. C. 3210
 6324, 6342
 Rodden, J. J. 47
 Rodewald, H. J. 7554
 Rodgers, C. 5270
 Rodkevich, E. D. 3309
 Rodov, G. S. 4441
 Roeland, C. J. A. 2493
 Rogers, C. B. 5683
 Rogers, E. W. E. 2833
 Rogers, L. A. 1010
 Rogers, M. 5523
 Rogers, T. G. 540
 696, 697
 Rogerson, J. H. 1469
 Rohrbach, C. 4292
 Rohsenow, W. M. 2302
 Roitenberg, Ia. N. 663
 Roizen, L. I. 2862
 Rolfe, S. T. 1448
 Rollins, K. 5955
 Rolsten, R. F. 2444, 4409
 Rom, F. E. 1709
 Rom, J. 300, 906
 2093, 4006, 4084
 Romagnaoli, R. J. 4106
 Romanenko, P. N. 327
 1611, 5932, 7249
 Romano, F. 111, 5618
 Romanovskii, Yu. M. 4648
 Romashkin, Yu. P. 4970
 Rombusch, U. K. 7360
 Romero, J. J. B. 5303
 Romishevskii, E. A. 3513
 Romishevskii, Ye. A. 2328
 Romstad, K. 2694, 4499
 6443
 Romualdi, J. P. 216
 Ron, A. 513
 Ronay, M. 226
 Rongved, L. 6221
 Roos, A. 3872
 Roos, B. W. 1, 12
 Root, W. L. 18
 Roper, C. R. 3198
 Roscoe, K. H. 1431
 2066, 2067
 Rosculet, M. N. 7
 Rose, E. A. 6308
 Rose, H. E. 1848
 Rose, P. H. 528, 6750
 Rosebrock, T. L. 5390
 Rosen, B. W. 1144, 4497
 6445
 Rosenauer, N. 3324
 Rosenberg, R. M. 7060
 Rosenbluth, M. N. 1726
 1734, 2950, 5940
 Rosenbrock, H. H. 33
 Rosenfeld, J. L. J. 5344
 5345
 Rosengren, G. 5596
 Rosenhaupt, S. 6310
 Rosensweig, R. E. 5241
 Rosette, K. L. 570
 Roshko, A. 2839
 Roshore, E. C. 7564
 Rosin, G. S. 6503
 Rosman, R. 2418, 6451
 Rosner, D. E. 1030, 7254
 Rosner, M. 2289
 Ross, A. L. 4149
 Ross, C. T. F. 6327, 7000
 Ross, D. S. 724, 1891
 Rossbach, J. 55
 Rosser, W. A., Jr. 464
 Rossi, M. 23
 Rossow, V. J. 2944
 Rostoker, W. 4491
 Rotem, Z. 1666, 1699
 2167
 Roth, B. 2722
 Roth, E. 1190
 Roth, H. 2272
 Rothhardt, L. 6101
 Rothman, H. 2709
 Rothman, M. A. 2380
 Rott, N. 5994
 Rotta, J. C. 7267
 Rotty, R. M. 2756
 Roubik, J. R. 2074
 Rouleau, W. T. 4631
 Rouse, H. 3934
 Routley, J. H. 6172
 Rouze, M. 5452
 Rovinskii, B. M. 1331
 Row, P. F. 1166
 Rowe, P. W. 2665, 5074
 Rowe, R. D. 806
 Rowell, L. N. 1175
 Roy, J.-F. 5240
 Roy, N. 3971
 Roy, R. J. 1913, 6914
 Royster, D. M. 4838
 Rozeanu, L. 4221
 Rozenbaum, R. B. 1199
 Rozenberg, M. D. 592
 Rozenblum, V. I. 1960
 Rozenshtok, Yu. L. 2864
 7373
 Rozenvasser, E. N. 3103
 3692, 4267
 Rozhdestvenskii, Yu. B. 3695
 Rozner, A. 5760
 Rozonoer, L. I. 4907, 4908
 Rozovskii, M. S. 6478
 6481
 Rozsa, L. 1950, 3906
 Rozvany, G. I. N. 2112
 Rubanik, V. P. 6230
 Rubel, A. 6761
 Rubenkova, L. A. 96, 2071

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

AUTHOR INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

65

- Rubin, H. H. 2903
 Rubin, I. 2774, 6683
 Rubinstein, M. F. 5704
 Rubtsov, N. A. 6688
 Ruckenstein, E. 7389
 Ruder, J. M. 3500
 Rudiger, D. 729, 1264
 1265, 5731, 7487
 Rudis, M. 6832
 Rudis, M. A. 4327
 Rudnev, Yu. V. 2179
 Rudnitskii, B. E. 4278
 Rudolph, H. 6211
 Ruggeri, R. S. 2739
 Ruhlin, C. L. 3571, 7474
 Rukenstein, E. 439
 Rukhadze, A. A. 5363
 Rukhadze, Zh. A. 6952
 Rumman, W. S. 3815
 Rumyantsev, O. V. 6185
 Rumyantsev, V. V. 1518
 2738, 5527
 Rumynski, A. N. 3507
 Ruppeneit, K. V. 3273
 Rusanov, V. V. 5911
 Rush, C. K. 3985, 3986
 Rushton, K. R. 1974
 Rusinko, K. N. 5582
 Ruskol, Ye. L. 604, 7521
 Russell, D. B. 7216
 Russell, D. G. 1817
 Russell, D. L. 4283, 4937
 Russell, P. E. 3372
 Rutherford, P. 6084
 Rutishauser, H. 1883
 Rutman, R. S. 2542
 Rutowski, R. W. 7466
 Ruud, F. O. 7016
 Ruzina, G. M. 6434
 Ryabinin, A. G. 1558
 Ryabinin, Yu. N. 6982
 Ryabov, V. M. 5640
 Ryan, N. W. 6720
 Ryan, W. J. 5338
 Ryanantsev, Yu. S. 1587
 Ryazanov, E. V. 2994, 4129
 Ryazanov, G. A. 3079
 Ryazanov, N. V. 3861
 Rybakina, O. G. 6973
 Rybakov, A. I. 556
 Rybavashov, M. V. 2516
 2536, 3672
 Rychlewski, J. 2571
 4975, 6296
 Ryhming, I. L. 2788, 5884, 5912
 Rykov, G. V. 2660
 Ryley, D. J. 1200, 5328
 Rylli-Nardzewski, J. 5114
 Rynn, N. 4011, 6090
 Ryvkin, V. B. 6651
 Ryzhov, O. S. 3386, 7228
- S**
- Saad, M. A. 6613
 Saari, A. E. 558
 Saaty, T. L. 2500
 Sabatini, B. 1573
 Sabersky, R. H. 1035, 2898
 Sabin, P. G. 4452
 Sachdeva, B. K. 6734
 Sacher, P. 7576
 Sachs, G. 7168
 Sackman, J. L. 1334, 2448
 Sackmann, L. 3344, 4205
 Sadetov, S. Ya. 103
- Sadikov, I. N. 5231
 Sadoff, M. 5250
 Sadowsky, M. A. 3137
 Saelman, B. 1510
 Saffman, P. G. 590, 1623
 3542
 Safranov, G. S. 4288
 Safronov, V. S. 7521
 Sagdeev, R. Z. 3547
 Sage, B. H. 5314, 5346
 Sagirov, P. 1285
 Saibei, E. 617
 Saidai, N. 6560
 St. Germain, A. R. 1989
 Saint-Guiyl, B. 5261
 Saito, M. 3833
 Saito, S. 4759
 Saito, T. 2826
 Saiz, M. 4562
 Sakagami, J. 6837
 Sakai, A. 4743
 Sakata, M. 6956
 Sakharov, V. N. 7147
 Sakipov, Z. B. 929
 Sakurai, T. 2378
 Salaba, J. 4940
 Salamandra, G. D. 4599
 Salaun, P. 7476
 Salceanu, C. 4204, 4547
 Salesse, M. 4767
 Salganik, R. L. 2673, 5091
 6417, 7142
 Salikhov, N. F. 4663
 Salive, M. L. 6421
 Salmon, M. A. 830, 1387
 Salomon, M. 2093
 Salter, G. R. 4770
 Saltzman, B. 1206, 1833
 Saltzman, E. J. 6635
 Salukvadze, M. E. 1930, 6917
 Salustowicz, A. 681
 4302, 5750
 Salyi, I. 2134
 Salzer, H. E. 4250
 Samain, A. 2936
 Samarskii, A. A. 7371
 Samoilovich, Yu. A. 6777
 Samokhin, M. V. 4122, 4123
 Sampsell, D. F. 7401
 Sampson, R. C. 3291
 Samson, C. H., Jr. 3832
 Samsonov, G. V. 4480
 Samuelson, A. 6350
 Samus, V. M. 4254
 Sananes, F. 5187
 Sanatori, R. J. 2795
 Sandcock, D. M. 4673, 6620
 Sanders, J. L., Jr. 1980, 2677
 Sanders, K. L. 1172
 Sandorf, M. C. 3571
 Sandri, R. 1081
 Sandru, N. 7092
 Sandulescu, S. 2763
 Sane, Y. S. 3272
 Sanfirova, T. P. 84
 Sanger, R. 1190
 Sangren, W. C. 1
 Sanial, T. G. 7518
 Sankar, R. 646
 Sankaranarayanan, R. 1750
 San Miguel, A. 5779
 Sanpaolesi, L. 6338
 Sansome, G. E. 3438
 Sanuki, M. 1648
 Sanzharovskii, A. T. 2096
 Sapowith, A. D. 5796
 Sapozhkov, N. M. 3144
 Sapunkov, Ia. G. 304
 Sarachik, P. E. 1282
 Sarafa, Z. N. 1038, 7244
- Sarapov, O. P. 7602
 Sarkar, S. K. 169
 Sarkisyan, V. S. 3575, 3760
 Sarma, G. N. 3957, 6589
 Sarpkaya, T. 283, 2554
 Sartell, R. J. 6664
 Sarychev, V. M. 1112
 Sasaki, F. T. 6803
 Sasaki, T. 1228
 Sasarov, M. P. 1541
 Sastri, K. S. 7266
 Sastry, M. S. 907
 Sathyaranayana, H. V. 692
 Sato, K. 2671
 Sato, S. 253, 420
 Sato, T. 438, 3988
 4707, 7362
 Sato, Y. 1201, 2659, 4214
 Sato, Y. 1470, 4408
 Satoyama, S. 3569
 Satterlee, H. M. 5960
 Satyanarayana, B. 2785
 Sauer, R. 3061, 5883
 Sauerwein, H. 4586
 Saunders, O. A. 4043
 Saunders, P. M. 1207
 Savage, D. W. 2307
 Savarenskii, E. F. 6839
 Savateev, A. V. 1660
 Savchenko, N. V. 5415
 Savchenko, V. I. 4811
 Save, M. 3313
 Savel'ev, N. T. 5113
 Savet, P. H. 673
 Savin, G. N. 1395
 Savitsky, D. 1548
 Savory, N. R. 1340
 Savvin, A. B. 660
 Sawada, R. 602
 Sawaragi, T. 6847
 Sawaragi, Y. 2527
 Sawczuk, A. 1985, 4323
 Sawyer, G. A. 2402
 Sawyer, R. A. 4579
 Saxena, S. C. 1004, 3471
 3475, 4016, 4017, 4750
 Saxenhofer, H. 4987
 Sayama, T. 1514
 Sayasov, Yu. S. 1584
 Sayers, K. H. 7050
 Sbarounis, J. A. 6471
 Scagnetti, M. 4713
 Schaaf, S. A. 1592
 Schaafs, W. 6103, 6165
 Schade, H. 7262, 7273
 Schade, R. O. 6584
 Schaefer, D. 4422
 Schaefer, H. 3135, 3203
 Schaefer, J. W. 1055, 2930
 Schaeffer, A. B. 1800
 Schaeffer, H. G. 6781
 Schafke, F. W. 14
 Schallamach, A. 4223
 Schapery, R. A. 88, 4807
 5412, 6782
 Schapker, R. L. 2321
 Schastnev, P. V. 222
 Schaub, U. W. 5868
 Schauer, J. J. 892, 2882
 Schechter, H. B. 6797
 Scheibl, A. 6986
 Scheiman, J. 3452
 Scher, S. H. 2821
 Schetz, J. A. 889, 1603
 6663
 Schexnayder, C. J., Jr. 6718
 Schiebe, F. R. 1217
 Schijve, J. 3305, 7136
 7137, 7140, 7141
 Schile, R. D. 6364
- Schimmerl, J. 7113
 Schindler, A. 6301
 Schindler, G. W. 75
 Schlack, A. L., Jr. 5669
 Schmaedeke, W. W. 4937, 4943
 Schmeltzer, R. A. 4587
 Schmidt, A. O. 2074
 Schmidt, D. 4200
 Schmidt, E. 4698, 5997
 6642
 Schmidt, E. O. 1661
 Schmidt, G. 2371, 2388
 Schmidt, J. J. 3636
 Schmidt, J. W. 5144
 Schmidt, L. C. 5023
 Schmidt, R. 5648
 Schmit, L. A., Jr. 1488, 4348
 4390
 Schneider, A. 5570
 Schneider, H. E. 4887
 Schneider, J. M. 264
 Schneider, K. J. 430
 Schobel, M. 48
 Schohan, B. 5526
 Scholtz, M. T. 2349
 Schonauer, W. 7259
 Schonhage, A. 3067
 Schooley, A. H. 2169
 Schowalter, W. R. 5160
 Schreier, S. 2324
 Schrock, V. E. 6575, 6694
 Schroder, R. 6508
 Schroth, R. T. 7342
 Schubert, M. 6980
 Schuerch, H. 4496, 5831
 5836
 Schuh, N. F. 491
 Schulman, F. 486
 Schulman, Z. P. 6578
 Schultz, A. B. 2651
 Schultz, J. W. 239
 Schultz-Grunow, F. 6605
 Schulz, H. 2260
 Schumacher, R. A. 2485
 Schumacher, R. N. 136
 Schumann, H. 135
 Schumann, W. 6300
 Schupp, A. A., Jr. 533
 Schurmann, E. E. H. 1617
 Schutz, G. 2319
 Schwab, F. 5475, 6384
 Schwaighofer, J. 3859
 Schwartz, A. A. 1230
 Schwartz, H. I. 274
 Schwartz, J. 2093
 Schwartz, L. M. 2775
 Schwartz, M. M. 6326
 Schwartzberg, F. R. 6131
 Schwarz, H. R. 1883
 Schwarz, W. H. 347, 356
 Schwarzein, Z. E. 5435
 Schwarze, G. 34
 Schweikert, D. G. 1802
 Schwendler, R. G. 3800
 Schwiderski, E. W. 4219, 6523
 Schwind, R. G. 7379
 Sciammarella, C. A. 6428
 Scordelis, A. C. 101
 Scott, I. G. 1462, 2707
 Scott, J. O. 4211
 Scott, R. F. 7108
 Scott, S. J. 2323
 Scott, W. C. 486
 Scott, W. J. 1778, 5922
 Scuderi, T. G. 4161, 7171
 Seagrave, R. C. 5346
 Sears, R. M. 3879
 Seban, R. A. 6577
 Sebastian, R. A. 1179
 Sechler, E. E. 2005

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Secker, P. E. 6494
 Secretan, B. 794, 5726
 Sedakova, M. T. 2108
 Sedlacek, R. 5092
 Sedney, R. 2803
 Sedov, L. I. 1861, 3658
 Seed, H. B. 815
 Seelig, J. M. 4372
 Seely, G. R. 7201
 Seetharamiah, K. 3929
 Seetharamulu, K. 6307
 Segard, N. 4856
 Segedin, C. M. 201
 Segel, L. A. 2881
 Seginer, A. 2093, 4006
 Segner, E. P., Jr. 6460
 Seguier, P. 3024, 4210
 Seguin, M. M. 5707
 Sehgal, R. 5347
 Seidel, B. S. 4671
 Seidel, M. 3935
 Seider, M. 1925
 Seidman, T. I. 5504
 Seifert, H. 478
 Seiff, A. 3466, 5311
 Seikel, G. R. 4781
 Seireg, A. 1218
 Sekhniashvili, E. A. 162
 Sekulic, M. R. 668
 Selberg, H. L. 6392
 Selig, E. T. 806
 Selig, F. 1813
 Sell, G. R. 3699
 Sellen, J. M., Jr. 6745
 Sellers, J. P., Jr. 2343, 2344
 Selway, D. R. 7144
 Semenisty, V. M. 4458
 Semenov, A. P. 4885
 Semeria, R. 4075, 5323, 6693
 Sen, A. K. 2953
 Sen, A. R. 4649
 Sen, B. 2636, 5741
 Sendelbeck, R. L. 6412
 Senf, B. 5541
 Sen Gupta, A. K. 7058
 Sen Gupta, R. 6362
 Sennett, R. E., III. 3783
 Sensenig, C. B. 1993
 Sep, Z. 1138
 Serafin, J. L. 3275, 3904
 Serafini, J. S. 1614
 Serdengecti, S. 4984
 Serebrennikova, I. I. 106
 Serebryakova, N. N. 2623, 5534
 Seredinsky, V. 963
 Serensen, S. V. 1450, 3874, 4444
 Sergeev, S. I. 4457, 5973
 Sergeevich, V. I. 402
 Sergeyev, M. A. 1295
 Serovy, G. K. 371
 Serpico, J. C. 3788
 Serrin, J. 316, 1242, 2163
 Servanty, P. 4603
 Sessler, G. M. 4780
 Sessler, J. G. 2679
 Sestero, A. 4782
 Seth, B. R. 1336, 1337, 3178, 3186
 Sethna, P. R. 7061
 Sevenhuijsen, P. J. 7140, 7143
 Severs, E. T. 1527
 Severynse, G. T. 2460
 Sevik, M. 3208, 7277
 Sewall, J. L. 6371
 Sewell, M. J. 1240, 3285
 Seymour, E. V. 3995
 Sguaitamatti, B. 7554
 Shabalin, V. I. 4475, 4490
 Shabat, A. B. 3066
 Shabat, B. V. 6883
 Shafer, H. J. 1257
 Shaffer, B. W. 3887
 Shaffer, H. W. 4287
 Shafrarov, V. D. 5394
 Shah, A. H. 2448
 Shah, B. V. 6201
 Shah, H. C. 7176
 Shaidakov, V. I. 1162
 Shaidurov, G. F. 2911
 Shail, R. 3064
 Shair, F. H. 3369
 Shakhnov, I. F. 927, 2178
 Shakhnov, I. I. 7434
 Shakhnovskii, S. M. 738, 739
 Shakhromanov, G. S. 1363
 Shakib, I. D. 2496
 Shalaev, V. G. 4263
 Shaman, P. 4245
 Shamina, V. A. 5008
 Shamovskii, B. Ya. 324
 Shannon, G. F. 5517
 Shannon, L. J. 2917, 6059
 Shapiro, A. H. 627, 3051
 Shapiro, G. S. 6972
 Shapovalov, V. E. 2137
 Sharatova, T. A. 3457
 Sharma, C. B. 6293, 6948
 Sharma, S. D. 1845
 Sharma, V. P. 423, 1044
 Sharp, B. B. 7334
 Sharp, C. R. 5868
 Sharpe, D. R. 7103
 Sharples, A. 3618
 Shashurin, I. P. 3717
 Shaskol'skaya, M. P. 795
 Shaskol'skii, B. V. 5848
 Shatrov, E. V. 1080
 Shatunovskii, V. L. 3868
 Shavel'nikova, M. V. 1208
 Shaw, F. S. 2696
 Shaw, J. M. 2278
 Shaw, L. G. 1924
 Shaw, M. C. 212, 6186
 Shaziyatov, Sh. 4921
 Shchelkin, K. I. 1187
 Shchelkin, Ya. K. 466
 Shcherbina, Yu. A. 4765
 Shcherbinin, E. 4789
 Shchibraev, E. V. 7380
 Shchukin, V. K. 3533, 3867
 Shchukin, S. D. 6219
 Sheaffer, Y. S. 2787
 Shear, D. D. 407
 Shebshaevich, V. S. 6927
 Sheean, W. J. 1572
 Sheindlin, A. E. 3480, 6766
 Shekhter, O. Ya. 4954
 Sheldon, J. W. 1869, 6727
 Shelestko, L. P. 7169
 Shemonaev, A. S. 5712
 Shen, C. C. 7551
 Shen, C. N. 1937, 6233
 Shen, M. C. 5255, 5256
 Shen, M. -K. 3179
 Shen, Y. C. 553
 Shenderov, E. L. 5449, 6163, 6164
 Sheng, J. 1988
 Shennikov, V. V. 1060
 Shepard, C. E. 2928
 Shepherd, A. T. 669
 Sheppard, T. D. 5298
 Sher, E. N. 2068
 Sherbourne, A. N. 2609
 Shermegor, T. D. 3153
 Sherry, N. P. R. 886
 Sherzhukov, B. S. 6175
 Sheshnev, S. T. 760
 Shestopalov, L. M. 4970
 Shevchenko, Yu. M. 3578
 Shevelev, A. A. 536
 Shield, R. T. 3127, 5812
 Shih, W. C. L. 7252
 Shima, A. 4564
 Shima, E. 2467
 Shimada, H. 4454
 Shimada, S. 5571
 Shimanov, S. N. 3089
 Shimanovich, V. D. 4137
 Shimizu, K. 5758
 Shimogo, T. 1409
 Shinnar, R. 1702, 2915
 Shinopoulos, G. F. 6429
 Shinozuka, M. 1370, 2683, 2967, 6462, 7024
 Shiotani, M. 4570
 Shioya, S. 1983
 Shipley, E. D. 2400
 Shirai, M. 6859
 Shiraishi, T. 541
 Shirokov, M. F. 5356
 Shishman, S. S. 6930, 6932
 Shitsman, M. E. 3525
 Shitsun, V. 1774
 Shivakumar, P. N. 73
 Shizume, T. 996
 Shkarbul', S. 3994, 4669
 Shliomis, M. I. 6100
 Shlyakhtin, A. V. 1912, 4370
 Shmidt, K. Kh. 6141
 Shmukler, Yu. I. 3700
 Shmyglevskii, Ju. D. 1594
 Shneider, Yu. G. 3278
 Shneiderman, A. L. 7019
 Shneiderovich, R. M. 7496
 Shnitser, G. Ya. 5647
 Shobe, L. R. 2092
 Shoemaker, E. M. 6287
 Shohet, J. L. 1115, 3537
 Sholkin, G. V. 6751
 Shore, C. P. 4160
 Shore, S. 1401, 3783
 Shorr, B. F. 3159
 Shouman, A. R. 4938
 Shraiber, D. S. 5799
 Shramkov, K. A. 3268
 Steinberg, A. S. 5349
 Steinberg, L. B. 4471
 Shtemenko, L. S. 1590, 5917
 Shtengel'meier, S. V. 3999
 Shtern, E. P. 5171
 Shubin, I. A. 4973
 Shugrin, S. M. 5861
 Shukla, H. C. 5021
 Shukla, J. B. 6726, 7594
 Shuleikin, V. V. 5966, 7541
 Shulepov, V. I. 7504
 Shuleshko, P. 6341
 Shul'gin, M. F. 4264
 Shulishina, N. P. 2769
 Shulka, J. B. 1714
 Shull, H. E. 4337
 Shur, D. M. 4466
 Shuto, N. 7297
 Shutte, A. 2070
 Shveiko, Yu. Yu. 1139
 Shvets, R. N. 5407, 5409
 Shvidler, M. I. 3017
 Sibile, R. 4558, 4559
 Sibley, L. B. 5766
 Sibul, O. J. 4877
 Sibulkin, M. 297, 4195
 Sherbourne, A. N. 2609
 Shermegor, T. D. 3153
 Sichel, M. 311, 4612
 Sidebottom, O. M. 6957
- Siegel, A. 2228
 Siegel, B. L. 6669
 Siegel, R. 2308, 2868, 3503, 6695
 Sieger, W. J. 3130
 Siegert, C. E. 6696
 Siegfried, W. 7497
 Sieker, K. -H. 1520
 Siekmann, J. 893, 935, 3424, 3425, 3961, 4636
 Sigalla, A. 3387
 Sigov, I. V. 6480
 Sih, G. C. 829, 2858, 5765
 Sikorski, M. E. 245
 Silberberg, M. 4068
 Silberg, P. A. 7437
 Silberman, E. 5867, 6514
 Silbiger, A. 4199
 Silin, V. P. 516, 1104, 4779, 5379
 Siljak, D. 42
 Silkin, E. A. 3752
 Sillem, H. 4910
 Silvester, R. 3349
 Sil'vestrov, Z. E. 4370
 Simbirskii, D. F. 1039
 Simkin, D. J. 1094, 7354
 Simmonds, F. A. 3338, 3884
 Simon, A. 5940
 Simon, A. L. 2735, 4511
 Simon, H. A. 2318
 Simon, W. 310
 Simon, W. E. 2176
 Simonds, H. R. 1482
 Sims, G. E. 2334
 Sims, J. L. 5896
 Sims, W. H. 3384
 Simuli, L. M. 7217
 Sinaiskii, V. M. 1331
 Sinclair, G. M. 1322
 Sinclair, J. H. 2102
 Sinclair, R. M. 2958, 5361, 5362, 6107
 Sindo, A. 5571
 Sinel'nikov, V. V. 717
 Sing, E. Y. 3588
 Singer, J. 145, 150, 762, 3793, 6349
 Singer, S. F. 1799
 Singh, A. 6784
 Singh, B. 5227
 Singh, D. 1560, 7429
 Singh, J. J. 6203
 Singh, K. 1882
 Singh, M. P. 3565
 Singh, R. P. 2166
 Singleton, L. G. 1786
 Sinha, B. P. 2661
 Sinha, D. K. 3733, 3829
 Sinha, K. D. P. 2166
 Sinha, N. K. 4934
 Sinha, S. B. 7100
 Sinha, S. N. 2588, 3502
 Sinitsyn, I. N. 3719
 Sipenkov, I. E. 1223
 Sirota, A. M. 3476
 Sirovich, L. 1599, 5257, 6820, 6821
 Siry, J. W. 4286
 Sitenko, A. G. 4116
 Sitkei, G. 50, 5348
 Sitnik, V. I. 5810
 Si-Tsin, Yan' 6580
 Sivchikov, B. Ye. 2638
 Six, P. 3025
 Skalak, R. 4659
 Skaloud, M. 5650, 6351, 7040

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Skartvedt, G. 4099
 Skempton, A. W. 5078
 Skidmore, L. J. 7519
 Skifstad, J. G. 4729
 Skimel', V. N. 4294
 Skinner, G. B. 7408
 Skinner, L. A. 7390
 Sklyar, B. L. 6416
 Sklyarevich, A. N. 2509
 Skobel'tsyn, Yu. A. 2753
 Skobunov, V. V. 4717
 Skopets, M. B. 4622
 Skvorodnikov, Yu. A. 950
 Skowronek, M. 5383
 Skripkin, V. A. 4329
 Skrucany, R. 5151
 Skugarev, I. G. 5085
 Skulsky, R. S. 3420
 Skuridin, G. A. 5067
 Skvortsov, E. V. 5470
 Skvortsov, P. I. 6759
 Slaby, J. G. 6669
 Sladkova, N. E. 5599
 Slaggie, E. L. 4239
 Slattery, J. C. 580, 1694
 1695, 3956
 Slavina, N. P. 3308
 Slechta, J. 3293, 7003
 Sleeman, W. C., Jr. 1169
 Sleicher, C. A., Jr. 1198
 Slepian, J. 2399
 Slepian, L. I. 6824
 Slezko, Z. F. 947
 Slezkin, L. N. 4948
 Slibar, A. 1529, 2727
 Sliney, H. E. 6866, 6869
 Slisski, S. M. 3354
 Sliter, G. E. 4982
 Slobodkin, A. M. 1870
 Slobodkin, L. S. 6029
 Slonimskii, G. L. 4470
 Slutsker, A. I. 5786
 Slutsky, S. 588
 Smakovskii, V. E. 5068
 Smelkov, A. A. 5532
 Smelyi, G. N. 6346
 Smetana, F. O. 5180
 Smigelski, J. 2398
 Smirnov, A. A. 2300
 Smirnov, A. F. 5127
 Smirnov, A. M. 2732
 Smirnov, A. V. 3309
 Smirnov, G. N. 5491
 Smirnov, N. A. 3074
 Smirnov, V. A. 1665
 Smirnov, V. N. 595
 Smith, A. J. W. 2731, 5191
 Smith, A. M. O. 2206
 Smith, C. C., Jr. 6789
 Smith, C. E. 5040
 Smith, C. E., Jr. 3470, 5214
 Smith, D. E. 6795
 Smith, D. W. 1898
 Smith, E. E. 4816, 6925
 Smith, F. M. 2279
 Smith, F. T. 1927
 Smith, G. F. 2858
 Smith, G. H. 561
 Smith, G. L. 2977
 4180, 5434
 Smith, G. M. 5713
 Smith, H. H. 839
 Smith, I. L. 2277
 Smith, J. A. 2839
 Smith, J. C. 6051
 Smith, J. E. 2092, 3297
 Smith, J. M. 5320
 Smith, K. A. 5223
 Smith, K. G. 6623
 Smith, L. H., Jr. 4672
 Smith, M. G. 633
 Smith, P. 502, 3379
 Smith, P. A. 5278
 Smith, P. G. 884
 Smith, P. W., Jr. 2454
 Smith, R. D. 2997
 Smith, R. T. 251
 Smith, T. J. B. 1804
 Smith, W. 2311, 2985
 7214, 7576
 Smith, W. A. W. 1085
 Smithberg, E. 4728
 Smirkov, N. K. 186
 Smolderen, J. J. 391
 Smolenski, D. 4188
 Smolkin, G. E. 6751
 Smolov, V. B. 3074
 Smolskii, B. M. 2885
 Smolyakov, B. Ya. 1113
 Smorkalov, A. F. 5081
 Smygunov, G. I. 3626
 Smythe, W. R. 6510
 Sneddon, I. N. 2414, 6334
 Snegovskii, F. P. 4894
 Snider, R. F. 2381
 Snitko, N. K. 276
 Snodgrass, F. E. 2253
 Snouse, T. W. 3581
 Snowdon, J. C. 791, 1423
 1424, 7063
 Snowdon, W. 3175
 Snyder, A. D. 7408
 Snyder, C. D. 2246
 Snyder, W. T. 1119, 2871
 Sobala, D. 569
 Sobey, A. J. 4305, 5032
 Sobol', I. M. 7371
 Sobolev, L. G. 1935
 Sobolev, N. D. 1449, 3580
 4445, 4808
 Sobolev, N. N. 4598, 6561
 Sobolevskii, V. M. 4157
 Sobol'skii, V. V. 4798
 Sobral, M., Jr. 35
 Sochilina, A. S. 4828
 Sockol, P. M. 1124
 Soda, N. 1225
 Soeda, T. 2527
 Soete, W. 3284
 Sofronov, Yu. D. 7129
 Sogin, H. H. 6665
 Sokeland, W. P. 2303, 2304
 Sokolov, N. I. 5549, 5550
 Sokolov, O. O. 4755
 Sokolovskii, D. L. 1824
 Sokovishin, Yu. A. 6747
 Solan, A. 1666, 1699
 Solarz, L. 2407, 3566
 Soldatenkov, T. R. 7452
 Soldini, M. 4986, 6300
 Solecki, R. 170, 746
 2029, 3767, 5054, 5701
 Soliday, S. M. 5526
 Sollars, A. R. 847
 Solntsev, G. S. 6759
 Solodkin, E. E. 1045
 Solodovnikova, V. V. 4922
 Solokov, V. S. 6126
 Solomakhova, T. S. 5215
 Solomon, J. M. 2214
 Solonkhin, R. I. 2920, 3457
 Solonouts, M. I. 5774
 Soloukhin, R. I. 5343
 Solov'ev, L. S. 1099
 Soltis, L. A. 6490, 6990
 Soluyan, S. I. 2999
 Someya, T. 5691
 Song, C. S. 959
 4616, 6515
 Soni, A. H. 7131
 Sonju, O. K. 6729
 Sonntag, G. 6255
 Soo, S. L. 1038, 7244
 Soong, T. T. 1408, 3614
 Sorin, P. 4955
 Sorkin, Yu. I. 3695
 Sors, L. 5772
 Sortais, H. C. 6408
 Sosnova, G. S. 4842
 Sosunov, G. I. 825
 Sotter, G. 1087
 Soucek, B. 3242
 Souriau, J.-M. 6199
 Southard, T. H. 1881
 Sowa, V. A. 5078
 Sowden, R. A. 7333
 Sozonenko, Yu. A. 3955, 4868
 Spady, A. A., Jr. 3081
 Spalding, D. B. 443, 2345
 2791, 4018, 4623
 Spang, H. A., III. 1246
 Sparacio, R. 5025
 Sparrow, E. M. 1033, 1051
 1054, 1066, 1070, 2235
 2888, 2889, 3493, 3527
 4059, 4737, 5208, 5327
 5942, 6033, 6038, 6045
 6531, 7385
 Sparrow, G. W. 5253
 Spasskii, K. N. 2263
 Spector, R. M. 3065
 Speerschneider, C. J. 1850
 Spence, J. 3822
 Spencer, B., Jr. 307, 2175
 Spencer, D. F. 6137
 Spencer, E. A. 878
 Spencer, M. 2914, 4761
 Spencer, P. B. 3473
 Spens, P. G. 2477
 Spera, D. A. 3776
 Speranskii, N. V. 7192
 Spero, S. W. 3150
 Sperry, W. C. 4541
 Spiegel, J. M. 4048
 Spiegler, P. 4068
 Spier, E. E. 3907
 Spillers, W. R. 2050, 2698
 5519, 6943
 Spindler, F. 2931
 Spinner, S. 545, 7170
 Spiridonova, N. I. 737
 Spisz, E. W. 2292, 4772
 Spitsyn, N. A. 5141
 Spliethoff, H. 5570
 Sponseller, H. P. 4231
 Spooner, S. T. 4192
 Sporing, R. W. 1926
 Spotts, M. F. 4517
 Spreemann, K. P. 3583
 Spreiter, J. R. 6088, 6095
 Spretnak, J. W. 3171
 Spring, S. 2669
 Springer, G. S. 1996, 4606
 Springfield, J. F. 5890
 Spruill, C. E. 1252
 Spyropoulos, P. J. 2577
 Squier, D. P. 1869
 Squire, L. C. 2767, 4637
 5282, 7272, 7283, 7399
 Squire, W. 349
 Squires, C. E., Jr. 3576
 Srawley, J. E. 6256, 6419
 Sretenskii, L. N. 676, 3973
 Solokov, V. S. 5959
 Solomakhova, T. S. 5215
 Solomon, J. M. 2214
 Solonkhin, R. I. 2920, 3457
 Solonouts, M. I. 5774
 Soloukhin, R. I. 5343
 Solov'ev, L. S. 1099
 Soltis, L. A. 6490, 6990
 Soluyan, S. I. 2999
 Someya, T. 5691
 Song, C. S. 959
 4616, 6515
 Soni, A. H. 7131
 Sonju, O. K. 6729
 Sonntag, G. 6255
 Soo, S. L. 1038, 7244
 Soong, T. T. 1408, 3614
 Sorin, P. 4955
 Sorkin, Yu. I. 3695
 Sors, L. 5772
 Sortais, H. C. 6408
 Sosnova, G. S. 4842
 Sosunov, G. I. 825
 Sotter, G. 1087
 Soucek, B. 3242
 Souriau, J.-M. 6199
 Southard, T. H. 1881
 Sowa, V. A. 5078
 Sowden, R. A. 7333
 Sozonenko, Yu. A. 3955, 4868
 Spady, A. A., Jr. 3081
 Spalding, D. B. 443, 2345
 2791, 4018, 4623
 Spang, H. A., III. 1246
 Sparacio, R. 5025
 Sparrow, E. M. 1033, 1051
 1054, 1066, 1070, 2235
 2888, 2889, 3493, 3527
 4059, 4737, 5208, 5327
 5942, 6033, 6038, 6045
 6531, 7385
 Sparrow, G. W. 5253
 Spasskii, K. N. 2263
 Spector, R. M. 3065
 Speerschneider, C. J. 1850
 Spence, J. 3822
 Spencer, B., Jr. 307, 2175
 Spencer, D. F. 6137
 Spencer, E. A. 878
 Spencer, M. 2914, 4761
 Spencer, P. B. 3473
 Spens, P. G. 2477
 Spera, D. A. 3776
 Speranskii, N. V. 7192
 Spero, S. W. 3150
 Sperry, W. C. 4541
 Spiegel, J. M. 4048
 Spiegler, P. 4068
 Spier, E. E. 3907
 Spillers, W. R. 2050, 2698
 5519, 6943
 Spindler, F. 2931
 Spinner, S. 545, 7170
 Spiridonova, N. I. 737
 Spisz, E. W. 2292, 4772
 Spitsyn, N. A. 5141
 Spliethoff, H. 5570
 Sponseller, H. P. 4231
 Spooner, S. T. 4192
 Sporing, R. W. 1926
 Spotts, M. F. 4517
 Spreemann, K. P. 3583
 Spreiter, J. R. 6088, 6095
 Spretnak, J. W. 3171
 Spring, S. 2669
 Springer, G. S. 1996, 4606
 Springfield, J. F. 5890
 Spruill, C. E. 1252
 Spyropoulos, P. J. 2577
 Squier, D. P. 1869
 Squire, L. C. 2767, 4637
 5282, 7272, 7283, 7399
 Squire, W. 349
 Squires, C. E., Jr. 3576
 Srawley, J. E. 6256, 6419
 Sretenskii, L. N. 676, 3973
 Solokov, V. S. 5959
 Solomakhova, T. S. 5215
 Solomon, J. M. 2214
 Solonkhin, R. I. 2920, 3457
 Solonouts, M. I. 5774
 Soloukhin, R. I. 5343
 Solov'ev, L. S. 1099
 Soltis, L. A. 6490, 6990
 Soluyan, S. I. 2999
 Someya, T. 5691
 Song, C. S. 959
 4616, 6515
 Soni, A. H. 7131
 Sonju, O. K. 6729
 Sonntag, G. 6255
 Soo, S. L. 1038, 7244
 Soong, T. T. 1408, 3614
 Sorin, P. 4955
 Sorkin, Yu. I. 3695
 Sors, L. 5772
 Sortais, H. C. 6408
 Sosnova, G. S. 4842
 Sosunov, G. I. 825
 Sotter, G. 1087
 Soucek, B. 3242
 Souriau, J.-M. 6199
 Southard, T. H. 1881
 Sowa, V. A. 5078
 Sowden, R. A. 7333
 Sozonenko, Yu. A. 3955, 4868
 Spady, A. A., Jr. 3081
 Spalding, D. B. 443, 2345
 2791, 4018, 4623
 Spang, H. A., III. 1246
 Sparacio, R. 5025
 Sparrow, E. M. 1033, 1051
 1054, 1066, 1070, 2235
 2888, 2889, 3493, 3527
 4059, 4737, 5208, 5327
 5942, 6033, 6038, 6045
 6531, 7385
 Sparrow, G. W. 5253
 Starikov, I. Ya. 5395
 Starikova, G. V. 5395
 Stark, V. J. E. 5395
 Starkman, E. S. 5395
 Starling, P. P. 5395
 Stanner, K. E. 5395
 Starodubov, Ya. D. 5395
 Starr, E. A. 5395
 Starrett, P. S. 5395
 Stasenko, I. V. 5395
 Stastny, M. 5395
 Staude, W. 5395
 Steavsky, Y. 5395
 Staylor, W. F. 5395
 Stechkin, B. S. 5395
 Steel, C. E. 5395
 Steele, C. R. 5395
 Steenbeck, M. 5395
 Steginsky, B. 5395
 Stehling, K. R. 5395
 Steiger, M. H. 5395
 Stein, R. P. 5395
 Stein, A. 5395
 Stein, M. 5395
 Steinbach, W. 5395
 Steiner, E. 5395
 Steiner, H. 5395
 Steiner, R. 5395
 Steinherz, H. A. 5395
 Steinmetz, W. J. 5395
 Stelson, T. E. 5395
 Sten'kin, E. D. 5395
 Stenning, A. H. 5395
 Stepanchuk, V. F. 5395
 Stepanov, A. V. 5395
 Stepanov, K. N. 5395
 Stepanov, V. A. 5395
 Stepanov, V. N. 5395
 Stepanov, V. S. 5395
 Stepanov, V. T. 5395
 Stepanov, V. Y. 5395
 Stepanov, V. Z. 5395
 Stephens, J. R. 5395
 Stephens, P. R. 5395
 Stern, I. 5395
 Stern, M. 5395
 Stern, M. E. 5395
 Sternberg, E. 5395

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

AUTHOR INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

- Stemlicht, B. 4235
 Sterrett, J. R. 3966
 Stevens, G. H. 238, 3883
 Stevens, L. K. 5023
 Stevens, W. F. 6226
 Stevenson, T. N. 3959, 3960
 Steverding, B. 6053
 Stewart, R. B. 5980
 Stewart, R. W. 1622, 2169, 2808
 Stewart, W. E. 1031
 Stewart, W. L. 5289, 7313
 Stewartson, K. 1118, 1550, 2158, 5898
 Stickforth, J. 7481
 Stiel, L. I. 5296
 Stielstjes, J. F. 1638
 Stiglat, K. 732
 Stiles, W. B. 2521
 Stine, H. A. 2928
 Stinnett, G. W. 6243, 7524
 Stippes, M. 69, 1397
 Stklyanin, Yu. I. 2464
 Stockman, N. O. 435
 Stoddard, F. J. 329, 909
 Stefan, A. J. 7302
 Stojanovich, R. 7480
 Stol'nikov, V. V. 2106
 Stolyarov, V. F. 2022
 Stolyarov, V. M. 4473
 Stone, H. L. 3625
 Stone, L. 545, 7170
 Stone, R. W., Jr. 6899
 Stoner, W. A. 1711
 Storer, R. J. 3377
 Storozhuk, Ya. P. 7416
 Stotz, K. C. 517
 Stout, R. D. 3198
 Stowell, E. Z. 2616
 Strack, S. L. 4684
 Strack, W. C. 4823
 Stradimov, P. K. 595
 Strakhov, G. I. 3798
 Strakhovich, K. I. 2204, 6747
 Strand, L. 5347
 Strandhagen, A. G. 2476
 Stratford, B. S. 2748, 2749, 3438, 6625
 Stratonovich, R. L. 2548
 Strauer, H.-D. 3660
 Straumann, R. 589
 Street, N. 5869
 Street, P. G. 3077
 Street, R. L. 5172, 5875
 Streeter, V. L. 368
 Streets, R. B., Jr. 3706
 Strelkov, S. P. 4648
 Stribling, C. B. 3394
 Stricklin, J. A. 7023
 Strizhak, V. E. 4799
 Strobel, H. 5541
 Strom, T. N. 6869
 Strome, D. R. 1369
 Stroud, W. G. 1182
 Strscheletzky, M. 4568
 Struble, R. A. 156, 555, 1261, 3059, 3217
 Struck, W. 5452
 Stuart, E. B. 7351
 Stuart, J. T. 2881
 Stubberud, A. R. 1266, 1267
 Stubbs, S. M. 2433
 Studzinski, S. H. 853
 Stuiver, W. 1241, 5496
 Stulov, V. P. 2201
 Stundel, D. 5844
 Stupochenko, E. V. 3952
 Stutts, H. C. 21
 Stuwe, H.-P. 7123
- Su, C. H. 4131, 4706
 Subach, A. P. 3805, 3806, 3816, 4225
 Subba Rao, S. 1815
 Subba Rao, V. 6334
 Subbotin, B. I. 5325
 Subbotin, M. I. 4391
 Subbotin, V. I. 2907
 Subramaniam, R. 3757
 Subramanian, N. R. 6558
 Suchar, M. 5655, 6950
 Suchkov, V. A. 5910
 Suddath, J. H. 6529, 6910
 Sud-Zlachevsky, A. I. 6921
 Suetsugu, I. 2643
 Sugawara, A. 2874
 Sugawara, S. 4707
 Sudgen, T. M. 5344, 5345
 Sugio, S. 1195
 Sugita, M. 5120
 Suhara, T. 1771
 Suhubi, E. 2586, 3180
 Suhubi, E. S. 7485
 Suijonitskii, A. M. 4045
 Suit, W. T. 1918
 Sukharevskii, V. M. 4096
 Sukhikh, L. I. 6269
 Sukhnayev, V. A. 2202
 Sukhova, N. A. 6940
 Sukiennik, P. 3648
 Suklje, L. 5076
 Suksov, I. I. 2804
 Sulimov, A. A. 4843
 Sullivan, A. M. 3844
 Sullivan, J. A. 3502
 Sullivan, P. A. 2186
 Sullivan, R. D. 2771, 3501
 Sulmont, P. 5524
 Sultangazin, U. M. 4265
 Sultanov, B. I. 599
 Sumarokov, N. P. 3124
 Summerfield, M. 1702
 Summers, A. L. 6088
 Summers, J. L. 2992
 Summers, L. G. 3716
 Sumner, I. E. 7302
 Sun, D. -C. 5230
 Sunahara, Y. 2527
 Sundara Raja Iyengar, K. T. 685, 692, 1299, 1350, 3754, 6985, 7179, 7180
 Sundaram, A. K. 1103
 Sundberg-Falkenmark, M. 5274
 Sunderland, J. E. 1023
 Sunderland, R. J. 1125
 Sundqvist, H. 3034
 Sung, C. B. 1293
 Sununu, J. H. 7400
 Suppiger, E. W. 1972, 5808
 Sur, S. P. 801, 7076
 Surace, F. 5839
 Suramishvili, G. M. 6741
 Surendraiah, M. 296, 3939
 Surget, J. 4002
 Surland, C. C. 233
 Suryanarayan, E. R. 7229
 Suryaprakasaro, U. 6081
 Sussman, M. 4586
 Sutcliffe, S. 1427
 Sutera, S. P. 1680
 Sutton, G. W. 2397
 Suvorov, Iu. P. 2413
 Suvorov, M. Ya. 3499
 Suwalski, L. 4364
 Suwandi, M. S. 2305
 Suzuki, E. 1244
 Svantesson, N. L. 5274
 Svehla, R. A. 6640
- Svetlichnov, B. P. 4426
 Svetlitckii, V. A. 280, 1396, 4515
 Sviridov, A. G. 4598
 Sviridov, Yu. B. 1080
 Svirskii, I. V. 132
 Swain, W. A. 3037
 Swaim, R. L. 1132, 2247
 Swan, D. W. 422
 Swanlund, G. 666
 Swannell, J. H. 4252
 Swartz, G. A. 503
 Swartz, P. 7576
 Sweet, G. E. 6629
 Swift-Hook, D. T. 1744
 Swigart, R. J. 2183, 3382
 Swithenbank, J. 1087
 Switzky, H. 1385
 Sy, A. 1737
 Sy'an-Chun, Se. 6082
 Sychev, V. V. 3480, 3483
 Sylvester, R. J. 1866
 Symonds, P. S. 6388
 Syroieshin, M. I. 809
 Syrovatskii, S. I. 3567
 Sysuev, Yu. A. 3749
 Szabados, L. 1026
 Szablewski, W. 2232
 Szabo, I. 2499
 Szabo, S. S. 6325
 Szczepanski, M. 215
 Szczepinski, W. 2568
 Szebehely, V. 1260, 4172, 5425, 6134, 6794, 7512
 Szekho, L. 1026
 Szechy, K. 208
 Szego, G. C. 497
 Szego, G. P. 1910, 4242
 Szekely, J. 2899, 4078
 Szelagowski, F. 3134, 4299, 4952
 Szemplinska-Stupnicka, W. 3796
 Szendy, Ch. 1121
 Szewczyk, A. 6594
 Szilagyi, G. 5472
 Szmodits, K. 1990
 Sztapa, Gy. 3296
- T**
- Tabakoff, W. 5268
 Tabueva, V. A. 3102, 5678
 Tai, C. L. 414
 Taikin, I. I. 6180
 Tailland, A. 4583, 4584
 Tainiter, M. 5511
 Taira, S. 541, 542, 5105
 Tajnofoi, J. 4555
 Takahashi, H. 1776, 5004, 5758
 Takahashi, S. 3808, 3809
 Takahashi, T. 3365, 5062
 Takakura, M. 3991
 Takano, A. 2805, 3393, 6588
 Takano, K. 3029
 Takayanagi, M. 2145, 5157
 Takeda, S. 4527
 Takeuchi, K. 438, 4220
 Takeyama, H. 828
 Talbot, L. 917, 2406, 5897
 Talipov, G. B. 64
 Tall, L. 5148
 Talha, M. M. 6012
 Tallian, T. E. 7599
 Talmor, E. 456
- Tal'pov, G. B. 7495
 Tamada, K. 1743, 2372
 Tamaki, H. 2902
 Tamakohri, K. 828
 Tamari, M. 1705
 Tamate, O. 6273
 Tamoikin, V. V. 4196
 Tamor, S. 2397
 Tamura, Z. 4743
 Tamuzh, V. P. 2048, 5609
 Tan, H. S. 5238
 Tanaka, K. 3569
 Tanaka, S. 3301, 4759
 Tanaka, T. 7491
 Tanaka, Y. 1705
 Taneda, M. 2720
 Taneda, S. 1571
 Tanenbaum, B. S. 2236
 Tang, H. H. 911
 Tang, Y. P. 1691
 Tanida, Y. 4145, 5401
 Tanimoto, B. 4331
 Tankin, R. S. 5342
 Tanner, R. I. 1535, 7203
 Tarapov, I. E. 1220, 1313, 4899, 5378
 Tao, L. N. 2310
 Tao-Sze Hsia, H. 3617
 Tapley, B. D. 5431
 Taplin, L. B. 1293
 Tarapov, I. E. 1220, 1313, 4899, 5378
 Tarasova, E. F. 473
 Tardif, H. P. 1483
 Tarnopol'skii, Yu. 1485
 Tartakovskii, I. B. 3534
 Tascher, C. 126
 Tasi, J. 5403
 Tatarnikov, A. A. 3085
 Tatarskii, V. I. 3408
 Tattro, C. A. 5069
 Tatsukawa, I. 4967
 Taupin, D. 4464
 Taylor, C. R. 2818
 Taylor, E. C. 2375
 Taylor, G. I. 3928
 Taylor, H. M. 2692
 Taylor, J. W. 6391
 Taylor, M. F. 4047
 Taylor, R. H. 7138
 Taylor, R. J. 606
 Taylor, R. L. 1380, 1646
 Taylor, T. D. 2873, 4079
 Taylor, T. D. 6532
 Tedrick, R. N. 6814
 Teer, D. G. 5487
 Teichen, K.-T. 6311
 Teichman, M. 6376
 Telfer, E. V. 3639
 Telkov, A. P. 2464
 Tellep, D. M. 5298
 Temnoevo, T. A. 5861
 Tempelman, W. H. 563
 Tempelmeyer, K. E. 7468
 Ten, I. A. 883
 Tenstryom, E. V. 6148
 Teodorescu, P. P. 5616, 6942, 6951
 Teodosiu, K. 4953
 Terai, K. 3579
 Terano, T. 2333
 Terazawa, K. 3579
 Terent'ev, A. G. 4640
 Ter-Krikorov, A. M. 3970
 Terletskii, L. E. 3910
 Ter-Mkrtych'yan, L. N. 3149
 Terrier, J. 5309

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Terry, J. E. 5907
 Teslyuk, E. V. 594, 597
 Testa, R. B. 90
 Teterivin, N. 448
 Teumin, I. I. 3005
 Tewfik, O. E. 1607, 2221, 2872, 4081
 Thaler, G. J. 39, 657
 Thal-Larsen, H. 6705
 Thelen, A. 4358
 Theocaris, P. S. 1472, 2570, 4453, 7150
 Theon, J. 7576
 Thibault, R. 5358
 Thielemann, W. F. 766
 Thieme, P. 3559
 Thirriot, C. 5164
 Thodos, G. 399, 4708, 5296
 Thom, A. 3160
 Thomas, D. F. 2981
 Thomas, E. 4029
 Thomas, F. 4638
 Thomas, H. H. B. M. 2248, 7285
 Thomas, R. H. 2142, 4540
 Thomke, G. J. 5233
 Thompson, G. 1276
 Thompson, J. S. 4695
 Thompson, P. A. 6567
 Thomsen, E. G. 6408
 Thomsen, P. 4875
 Thomson, W. R. 7375
 Thomson, W. T. 56, 655, 3821, 4273
 Thony, J. 2969
 Thornton, C. C. 7547
 Thorpe, J. F. 5864
 Thring, M. W. 4125
 Throne, J. L. 5197
 Thuering, G. L. 2075, 2076
 Thunell, B. 2611
 Thurber, J. K. 6820, 6821
 Thureau, P. 4024
 Thurlimann, B. 2602, 2603, 6284
 Thurman, W. E. 6556
 Thwaites, B. 4906
 Thyson, N. A. 1617
 Thyssen-Bornemisza, S. 6841
 Tichy, M. 105
 Tidman, D. A. 5370
 Tien, C. 2870
 Tien, C. L. 928, 2910, 5306, 6595
 T'ien, T.-C. 1332
 Tiffen, R. 3766
 Tifford, A. N. 450
 Tikhomirova, E. N. 6992
 Tikhonov, N. I. 6127, 7503
 Tilley, J. L. 1997
 Timmins, A. R. 570
 Timmons, J. D. 4289, 6810
 Timmons, M. J., Jr. 1156
 Timofeev, A. V. 3549, 6099
 Timofeev, V. N. 4741
 Timoshenko, V. G. 7090
 Timoshuk, L. T. 7162, 7498
 Timrot, D. L. 3482
 Ting, L. 1049, 6144
 Ting, T. C. T. 5738, 6388
 Ting, T. W. 3920
 Tipei, N. 610, 2983, 5442, 7591
 Tippets, F. E. 4065, 4066
 Tirskii, G. A. 1059, 1065, 2239
 Tirumalesa, D. 2759, 5886, 5983, 6558, 6585
 Tisenko, N. G. 4462
 Tisza, L. 5995
 Titchener, A. L. 2079
 Tkachev, V. N. 4232
 Tkalich, E. F. 1731, 6091
 Tkalich, V. S. 1731, 6091
 Toba, K. 332
 Tobak, M. 7289
 Tobias, S. A. 3219
 Todd, C. A. 3347, 3512
 Todes, O. M. 1199
 Tokar, I. Ya. 6188
 Toksoz, M. N. 5475
 Tolaccia, S. 5814
 Tolansky, S. 6413
 Tollmien, W. 6874
 Tolokonnikov, L. A. 5585
 Tolstobrov, B. Ya. 7578
 Tolstoi, D. M. 7072
 Tolstoy, I. 4650
 Tomashevskaya, I. S. 3262
 Tomashevskii, E. E. 5786
 Tomilov, E. D. 6888
 Tomenko, Yu. S. 5090, 5803
 Toms, R. M. 5580
 Tondl, A. 5674
 Toor, H. L. 1692
 Topchiyan, M. E. 577, 2445
 Topper, L. 4071
 Toppler, J. F. 2117, 2118
 Torian, J. G. 2301, 2861
 Tormey, J. F. 1447
 Torok, A. 1026
 Torrance, B. McK. 5155
 Torre, C. 3006
 Torroja, M. E. 5817
 Tou, J. T. 1274, 1919, 6912
 Tough, J. T. 7338
 Toulis, W. J. 2450
 Touryan, K. J. 5210, 5916
 Tovpenets, V. E. 4096
 Townsin, R. L. 2475
 Toyama, A. 3916
 Trager, J. 2090
 Trahair, N. S. 2121
 Trakhtenberg, R. M. 1934
 Trammell, G. T. 1808
 Trass, O. 1653, 2342, 2349, 7398
 Traustel, S. 4028
 Treanor, C. E. 1581
 Trefilov, V. I. 4980, 6981
 Trehan, S. K. 6734
 Tret'yakov, A. K. 6439
 Tret'yakov, A. V. 4153
 Tret'yakov, M. V. 3366
 Trevena, D. H. 7300, 899
 Tricomi, F. 3373
 Trifanov, E. V. 7602
 Trigger, K. J. 4424
 Tritton, D. J. 952, 1624
 Troesch, B. A. 2627
 Trofimenco, A. T. 929
 Trofimov, E. P. 6008
 Troitskaya, Z. V. 5047
 Troitskii, V. A. 1281, 5567, 6353
 Tronina, V. P. 5547
 Troost, A. 822, 4422
 Troshin, Ya. K. 1187
 Troshanskii, A. T. 1641
 Troyanov, M. F. 3499
 Trubert, M. R. P. 180
 Trubin, V. A. 7454
 Trubitsyn, V. P. 4400
 Trubkin, A. D. 7492
 Truchasson, C. 5473
 Truchlov, A. M. 6316
 Trueblood, R. D. 792
 Trueh, F. J. 4284
 Truell, R. 2452
 Truesdell, C. 1945, 5498
 Truman, A. B. 1314, 1315
 Trunin, I. I. 5774, 7124
 Trunin, R. F. 805
 Trusulescu, M. 3232
 Trustrum, K. 7215
 Truxa, K. 7563
 Tsai, S. W. 1996, 4606
 Tsakadze, D. S. 1005, 1006, 7392, 7393
 Tsakonas, S. 4674
 Tsang, H.-S. 5136
 Tsang, S. C. 1602
 Tsaplin, M. I. 1521
 Tsarapkin, L. V. 5115
 Tsarev, A. I. 5784
 Tsarev, G. P. 813
 Tsarevskii, A. F. 3998
 Tsarevskiy, B. V. 2100
 Tsatskis, V. I. 7041
 Tseltlin, A. I. 3755
 Tsei-wen, T. 6838
 Tsepkov, L. P. 4459
 Tselyaeva, M. S. 3868
 Tservatvadze, G. N. 2550
 Tsibin, G. I. 6867
 Tsikolin, G. I. 5578
 Tsinober, A. 4789
 Tsintsadze, N. L. 6737
 Tsirlin, A. M. 6236
 Tsoliman, G. I. 401
 Tsubone, M. 5573
 Tsubouchi, T. 420
 Tsuji, J. 5306
 Tsytovich, V. N. 7430
 Tucker, W. R. 878
 Tudhope, J. S. 1078
 Tudosie, C. 4428
 Tulenkov, F. K. 4471
 Tulin, L. G. 2661
 Tulin, M. P. 2156, 5970
 Tuluzakov, V. V. 843
 Tumanov, V. I. 6433
 Tunbridge, A. 2386
 Tuncel, O. 5627
 Tung, C. 6516
 Tung, F. 5560
 Tunitskii, L. N. 6561
 Tuplin, W. A. 5143
 Turbin, B. G. 2534
 Turitzin, A. M. 5465
 Turnblade, R. C. 6187
 Turner, C. E. 734
 Turner, F. H. 857, 4339, 4340, 5005
 Turner, H. L. 1159
 Turner, P. W. 1964
 Turner, R. D. 3681
 Turner, T. R. 5978
 Turner, T. W. 2070
 Turoverov, K. K. 3139
 Tuyen, V. D. 4858
 Tuzhilin, A. A. 3000
 Tverskoi, B. A. 3544
 Twomey, S. 2460
 Tyapunina, N. A. 795
 Tye, R. P. 1025
 Tyler, J. C. 4443
 Tynnyi, A. N. 5110
 Tzoar, N. 513

U

- Uberoi, M. S. 2363
-
- Uchakov, V. M. 7578
-
- Uchiyama, S. 5587
-
- Udalov, V. S. 2335
-
- Ueda, H. 6050
-
- Uematsu, T. 3016
-
- Ueno, K. 3172
-
- Ueno, T. 5492
-
- Uezawa, H. 3833
-
- Uffen, R. J. 188
-
- Ufimtsev, I. G. 6921
-
- Uflyand, Ya. S. 5590, 7106
-
- Ugarte, C. P. 6984
-
- Ugodchikov, A. G. 684
-
- Uhlenbusch, J. 7590
-
- Uhrig, R. 6356
-
- Ulbrich, E. A. 57
-
- Ule, L. A. 1790
-
- Ulmer, K. 5152
-
- Ulrich, E. 3908
-
- Umanskii, A. A. 3894
-
- Unangst, J. R. 6810
-
- Ungar, E. E. 1407, 2644
-
- Upfold, R. W. 62
-
- Upton, K. A. 7196
-
- Urbanowski, W. 2615, 6261
-
- Urshakov, E. V. 3298
-
- Urtiew, P. A. 1189
-
- Usami, T. 2659, 4214
-
- Usanov, V. V. 4055
-
- Uskov, M. K. 7192
-
- Usmanov, Kh. G. 2136
-
- Uspenskii, A. B. 6650
-
- Utesheva, V. I. 4393
-
- Utkin, V. I. 3688
-
- Uyehara, O. A. 1079
-
- Uzdalev, A. I. 7482
-
- Uzhik, G. V. 690
-
- Uzhik, V. A. 5788

V

- Vagas, I. 5472
-
- Vaglio-Laurin, R. 2188, 4595
-
- Vainshtein, B. I. 7535
-
- Vakulenko, A. A. 6282
-
- Valanis, K. C. 200, 2558, 3254, 6123
-
- Valeev, K. G. 3661, 5500
-
- Valembois, J. 1551, 4770
-
- 4867
-
- Valiev, Kh. V. 5387
-
- Val'kovskaya, M. I. 5112
-
- 5113
-
- Vallee, D. 3943
-
- Van Dort, D. 5690
-
- Vanco, M. R. 6686
-
- Vandakuvov, Yu. V. 4114
-
- VandeKoppel, R. 4099
-
- van der Eb, W. J. 5024
-
- Van de Riet, R. P. 3069
-
- van der Walle, F. 1213, 4560
-
- Van Deusen, B. D. 6902
-
- van de Vooren, A. I. 1806
-
- van de Vooren, J. 767
-
- van de Watering, W. P. M. 983
-
- van Diggelen, J. 6817
-
- van Driest, E. R. 335

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

AUTHOR INDEX TO APPLIED MECHANICS REVIEWS, VOL. 17, 1964

- Van Dyke, M. 3413
 van Hoogstraten, A. 6697
 Van Huff, N. E. 2339
 van Iterbeek, A. 1811
 Van'ko, V. I. 4804
 van Lammeren, W. P. A. 6864
 van Langendonck, T. 2576
 van Manen, J. D. 1213, 4878
 Vanoni, V. A. 6834
 van Poollen, H. K. 3629
 Vansant, J. H. 419
 van Schilgaarde, J. 3627
 van Shaw, P. 1063
 van Spiegel, E. 3416
 Van Tassell, W. 429
 Van Tuyl, A. H. 6882
 Van Tyen, H. W. 409
 van Wijk, M. C. 182
 van Wijngaarden, L. 523
 Vanyagin, I. F. 190
 Varadarajulu, G. H. 2462
 Vardanyan, G. S. 1457
 Varga, L. 868
 Varga, R. S. 6258
 Varnello, V. V. 5606, 6867
 Varshavskii, G. A. 4766
 Varshavskii, V. I. 3115
 Vary, A. 5392
 Vasauskas, S. S. 4476
 Vasilica, Gh. 3653
 Vasilenko, N. V. 4146
 Vasilescu, C. A. 7411
 Vasil'ev, F. P. 6650
 Vasil'ev, L. A. 7349
 Vasil'ev, O. A. 7504
 Vasil'ev, O. F. 5861
 Vasil'ev, V. V. 6266
 Vasil'ev, Yu. A. 4865, 4866
 Vasil'ev, Yu. I. 4392
 Vasil'ev, Yu. V. 6840
 Vasserman, A. A. 2852, 4226
 Vasudeva, B. R. 3406
 Vasudevan, M. 850, 1975
 Vasylevko, M. V. 5677
 Vasylyev, V. V. 5521
 Vatazhin, A. B. 1107
 Vedenov, A. A. 7461
 Veinblat, B. M. 4917
 Vekillov, Yu. Kh. 795
 Velichkin, I. N. 7583
 Velkoff, H. R. 6092
 Velsker, K. 865
 Velte, W. 6024, 6581
 Venchkovskii, L. B. 3098
 Venkatraman, B. 707, 3739
 6954
 Venkiteshwaran, S. P. 6852
 Ventress, G. B. 91
 Vera-Cruz, D. 2737
 Ver casson, M. 3437
 Veres, G. 2880
 Vereschagin, L. F. 246, 4026, 4712
 Verlaan, K. 5598
 Verma, P. 4790
 Verma, Y. K. 4790
 Vermeulen, P. J. 6271
 Verna, J. R. 3317
 Vernier, P. 5309
 Vernotte, P. 4701, 4727
 5301
 Veron, M. 4020
 Veronis, G. 5481
 Vershinin, I. M. 3987
 Vershinin, V. D. 1865
 Vertushkin, V. K. 2328
 Verzhinskaya, A. B. 4034
 Vest, C. E. 4890
 Verlutskii, V. N. 6674
 Vichnevsky, R. 5351, 6077
 Victor, M. 300, 2093
 Videon, F. F. 4442
 Viegas, J. R. 5316
 Vieira, L. R. B. 5554
 Vietz, J. T. 1476
 Vigak, V. M. 7152
 Vigour, H. E. 667
 Vijayakumar, K. 780
 Viktorov, I. A. 3004, 3621
 Villaggio, P. 2593, 3724
 Villain, J.-P. 3875, 5122
 Villeneuve, F. 2752
 Vinckier, A. 3284
 Vines, R. G. 3474
 Vinogradov, A. I. 711
 Vinogradov, G. V. 3649
 Vinogradova, I. E. 611
 Vinokur, M. 2773
 Vinti, J. P. 388
 Virzub, I. O. 4666
 Viskanta, R. 1613, 2890
 3560
 Visser, N. J. 5690
 Visy, Z. 6448, 6449
 Vitols, V. 1371
 Vittoz, B. 794, 5726
 Vitvitkii, P. M. 99, 1327
 Vivinet, C. 1505
 Vives, C. 4120, 5397
 Vlaardingerbroek, M. T. 3553
 Vladimirsky, S. 4335
 Vlasses, G. C. 7470
 Vlas'eva, M. N. 7159
 Vlasov, A. A. 4785
 Vlasov, K. P. 6713
 Vlasov, N. P. 5540
 Vlasov, V. S. 4315
 Vlasova, T. V. 4475
 Vlasova, Z. P. 317
 Vliet, G. C. 4744, 4745
 Vlugter, J. C. 2493
 Vocke, W. 4450
 Vodicka, V. 3794, 3807
 4039, 5682, 5685, 7069
 Vogel, U. 5952
 Vogt, W. G. 4241
 Vogts, J. 3371
 Voined, R. P. 3328, 3674
 Voitsekhovskii, B. V. 577
 Voitsenya, V. S. 7303
 Vojvodich, N. S. 4080
 Vol'fson, B. P. 2710
 Vol'fson, I. M. 7306
 Volkogon, G. M. 4162
 Volkov, A. N. 2582
 Volkov, M. S. 5432
 Volkov, S. D. 2566, 4439
 Volkova, N. S. 851
 Vollheim, R. 6010
 Vol'mir, A. S. 133
 Voloshkevich, G. Z. 3332
 Volosova, L. L. 470
 von Baranoff, A. 965
 von Glahn, U. H. 4758
 von Gunten, H. 5776
 von Jaskowsky, W. 1128
 von Turkovich, B. F. 4424
 von Ubisch, H. 6570
 Voorhees, H. R. 239
 Voorhies, H. G. 533, 1746
 Vorlicek, M. 105
 Vorob'ev, A. P. 3060
 Vorob'ev, A. Z. 5773
 Vorob'ev, G. G. 4915
 Vorob'ev, L. N. 2561, 6320
 Voronin, A. N. 4279
 Vorontsova, I. P. 3115
 Voskoboinikov, I. M. 4842
 Voss, H. M. 3573
 Vossers, G. 3638
 Volokhin, B. Z. 4456
 Vovchenko, I. I. 3701
 Vrusilovskii, I. V. 1637
 Vsevolodov, G. N. 3851
 7159
 Vujoshevitch, L. 7480
 Vukalovich, M. P. 3479
 Vukovitch, M. 5873
 Vuksta, T., Jr. 164
 Vulis, L. A. 929, 2148
 Vuorelainen, O. 4038
 Vyakov, S. S. 704
 Vydrin, V. N. 5101
 Vypov, G. P. 7263
 Vysochin, B. M. 176
- W
- Wache, A.-M. 4495
 Wack, B. 3870
 Waclawik, J. 1894
 Wade, R. B. 4880
 Wade, W. S. 538
 Wadhwa, L. K. 25
 Wadhwa, Y. D. 7275
 Wadlin, K. L. 2353
 Wadsworth, D. V. 1780
 Wagner, C. A. 2987
 Wagner, H. G. 7527
 Wagner, R. D., Jr. 3383, 3388
 Wah, T. 782, 3222, 3233
 3811, 6355
 Wahl, A. M. 702, 1962
 Wahl, E. W. 1835
 Wainwright, T. W. 4817
 Walden, F. 3358
 Waldmann, L. 7366
 Waldren, N. E. 2678, 3300
 Walker, C. J. 600
 Walker, D. F. 49
 Walker, J. W. 6259
 Walker, M. A. 1008
 Walker, R. A. 4864
 Wallace, P. W. 5762
 Wallas, K. F. A. 1963
 Wallio, M. A. 1129
 Waloen, A. 5643
 Walston, W. H. 5686
 Walter, L. A. 2176
 Walter, L. S. 7395
 Walters, K. 257, 2142
 3919, 4540
 Walters, T. S. 1205
 Walther, R. 5132
 Walton, T. E., Jr. 3530, 6701
 Walz, A. 7270
 Wan, K. S. 1580, 3968
 Wang, C.-K. 6450
 Wang, C.-Y. 5899
 Wang, F. C. 7559
 Wang, F. F. Y. 698
 Wang, H. 6233
 Wang, H.-C. 7011
 Wang, H. E. 3420
 Wang, H. H. 6879
 Wang, H. S. C. 4774, 7445
 Wang, K. 2931, 5429
 Wang, K. C. 7257
 Wang, P. K. C. 3104, 5560
 Wang, S.-L. 3321
 Wang, Y. L. 6525
 Ward, D. E. 2678, 3300
 Ward, G. N. 7299
 Ward, I. M. 1484
 Ward, J. C. 4215
 Ward, J. W. 2426, 5943
- Ware, G. M. 5192
 Warga, J. 2291, 7507
 Warner, C. F. 6052
 Warner, J. 4869
 Warner, R. F. 6284
 Warner, W. H. 4257, 4258
 4259
 Warren, C. H. E. 3623
 Warren, W. E. 1353, 2965, 3764
 Warsi, Z. U. A. 5235, 6579
 Wasan, D. T. 928, 4077
 Washizu, K. 6299, 6369
 Wasil, B. A. 6309
 Wasserman, G. 2689
 Wasserman, M. 6431
 Waszczyzyn, Z. 4992
 Watanabe, N. 2700
 Waterhouse, R. V. 2449
 Waterman, H. I. 2493
 Waters, H. 1999
 Waters, N. D. 3919
 Watson, J. 1566
 Watson, R. 3383, 3388
 Watson, V. R. 2928
 Watts, M. R. 5424
 Waymeyer, W. K. 1926
 Weaver, C. S. 5548
 Webb, L. D. 385
 Weber, H. E. 529, 6742
 Wecksler, O. S. 4733
 Weeks, T. M. 2191
 Weertman, J. 93
 Weeton, J. W. 247, 544
 Wegener, P. P. 6049
 Wehner, J. F. 7406
 Wehrend, W. R., Jr. 986
 Wehrli, C. 6638
 Weiberg, J. A. 2841
 Weidenhammer, F. 152
 Weigand, A. 2012, 2013
 Weigle, R. E. 2690
 Weil, L. 4488
 Weil, N. A. 830, 3201
 Weill, M. 4050, 4121
 Weimer, K. R. U. 3553
 Weinbaum, S. 7378
 Weinberg, F. J. 461
 Weiner, J. H. 2966
 Weiner, M. M. 3494
 Weingarten, V. I. 5053
 Weinstein, A. 630, 6195
 Weinstein, A. S. 3187, 6272
 Weinstein, H. 2812, 3347
 Weinstock, R. 389
 Weir, C. D. 999
 Weirich, R. L. 5418
 Weisfeld, M. 6802
 Weiss, A. 2339
 Weiss, H. 5272
 Weiss, N. O. 5909
 Weiss, V. 2679
 Weissberg, H. L. 2160, 3951
 Weissberg, K. 78
 Weissburger, J. T. 2573
 Weissglas, P. 2943
 Weissman, S. 2856
 Weiter, E. J. 1218
 Weitzner, H. 2942
 Welander, P. 3032
 Welch, C. P. 6704
 Wells, C. S., Jr. 3922
 Wells, D. R. 2371
 Wells, P. B. 5337
 Wells, W. L. 1129
 Wells, W. R. 4053
 Welsh, W. E., Jr. 476, 1704
 Welter, G. 5111
 Welton, D. E. 4101
 Wempner, G. 2605
 Wempner, G. A. 5636

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Wendel, M. M. 1565
 Wendt, R. P. 2856
 Weng, T.-I. 3772
 Wengrzn, S. 5551
 Wenograd, J. 1702, 2350
 Werle, H. 4691, 7339
 Werner, P. 3664
 Wernick, R. J. 7587
 Weske, J. R. 5874
 Westling, G. C. 2895
 Wesolowski, Z. 3128, 4357
 West, D. C. 7158
 Westcott, J. H. 674
 Westenberg, A. A. 2850
 Westmann, R. A. 3146
 Wetherall, C. J. 3620
 Wethern, R. J. 1068
 Wetstone, D. M. 1748
 Wetzel, J. M. 1217, 2479
 Wetzel, L. 1098
 Weygandt, C. N. 1909, 2524
 3109, 4929
 Weymouth, J. 1455
 Whang, Y. C. 316, 6035
 Whitaker, S. 1565
 Whitby, H. C. 2956
 White, A. 5161
 White, E. L. 4492
 White, G. 4290
 White, J. A. 672, 6142
 White, J. L. 2146
 White, L. C. 2814
 White, L. G. 6599
 White, R. N. 1872
 Whitehead, A. B. 2355
 Whitehead, D. S. 2030, 3978
 Whitehouse, D. R. 2946
 Whitlock, C. H. 3595
 Whitman, R. V. 3269, 7109
 Whitmarsh, D. C. 3622
 Whitmore, R. L. 875
 Whitsides, R. H. 1643
 Whitten, J. B. 6213
 Whittington, R. B. 1876
 Wick, B. H. 3942
 Wicke, G. 3812
 Wickens, R. H. 890, 6600
 Wickert, G. 3901
 Wicks, M., III 6535, 6536
 Widmer, T. E. 4632
 Wiebelt, J. A. 2317, 6711
 Wieckowski, J. 1378, 1547
 Whittington, R. B. 2581
 Wiederhold, P. R. 496
 Wiegand, J. H. 1443
 Wiendieck, K. 3736
 Wierzbicki, T. 3154
 Wiesinger, F. P. 1349, 2695
 3320
 Wiggins, L. E. 4181
 Wiggs, M. M. 2883
 Wiid, D. H. 4234
 Wiin-Nielsen, A. 2471
 Wijnen, M. H. J. 1700
 Wilde, P. 5035, 6786
 Wilde, R. W. 674
 Wilfert, H.-H. 4928
 Wilhelm, W. 5106
 Wilhoit, J. C., Jr. 689, 1405
 Wilke, C. R. 928, 4077
 Wilkerson, T. D. 1654
 Wilkins, J. E., Jr. 1069, 2297
 Wilkins, M. E. 475
 Wilkins, R. 2836
 Wille, R. 2168
 Willeke, H. 5860
 Williams, C. J. H. 3219
 Williams, G. C. 7417
 Williams, H. M. 2426
 Williams, J. 960, 5277
 Williams, J. C., III 1597
 Williams, J. E. F. 5454
 Williams, J. G. 2749
 Williams, J. L. 2424
 Williams, J. R. 2312
 Williams, L. A. 1751
 Williams, M. J. 6632
 Williams, M. L. 119, 4965
 Williams, R. 230
 Williams, T. J. 7333
 Williams, W. E. 505, 1237
 1238, 3662
 Williams, W. S. 6125
 Willmarth, W. W. 4635, 6831
 Willner, A. R. 6421
 Willson, A. J. 5071
 Wilman, H. 2481
 Wilson, B. W. 1834
 Wilson, D. H. 7427
 Wilson, E. L. 6470
 Wilson, H. B., Jr. 69
 Wilson, J. 2837, 3389
 Wilson, J. A. 2835
 Wilson, J. F. 3165
 Wilson, K. C. 3013
 Wilson, M. J. G. 4762
 Wilson, P. E. 1011, 3907
 Wilson, R. W. 5780
 Wilson, V. C. 489
 Wineman, A. R. 4175
 Wing, J. 1280
 Wingrove, R. C. 1287, 2427, 6243
 Winkler, H. W. 2164
 Winn, L. W. 4235, 7585
 Winovich, W. 3455, 5311
 Winslow, P. C., Jr. 6414
 Winston, M. M. 1644, 6629
 Winter, E. R. F. 3527
 Winter, G. 818
 Winter, K. G. 6623
 Winter, R. 2003
 Winternitz, F. A. L. 978
 981
 Winters, C. W. 6702
 Wintucky, W. T. 977
 Wippel, H. 4314
 Wippell, A. P. R. 1943
 Wise, H. 464
 Wise, N. S. 3644, 3912, 7102
 Wisneski, M. L. 3611
 Witcofski, R. D. 4646
 Witmer, E. A. 799
 Witt, F. J. 2092
 Witte, J. H. 5211
 Witten, L. 365
 Wittenberg, A. M. 2717
 Witting, H. 4076
 Wittrick, W. H. 114, 757
 4958, 6313
 Wnuk, M. 3158, 4995, 5622
 5813, 6962, 6963, 6976
 Woerner, W. A. 4381
 Woerner, C. V. 6815
 Wohl, K. 6717
 Wojcik, C. K. 6228
 Wolf, H. 4661
 Wolfel, J. 1323
 Wolff, R. P. 3849
 Wollman, H. B. 2946
 Wolowski, E. 877
 Wolska-Bochenek, J. 6526
 Wolter, W. 3346
 Wolverton, R. W. 559
 Wong, F. K. C. 1508
 Wong, G. S. K. 4461
 Wong, K. C. 2701
 Wong, K. K. 1204
 Wong, P. T. Y. 6691
 Wong, R. Y. 4667
 Wonham, W. M. 1911
 Woo, D. M. 6292
 Wood, B. J. 464
 Wood, G. M. 374, 2155
 Wood, H. L. 1481
 Wood, J. D. 2614
 Wood, L. W. 4350, 6490
 Wood, M. R. 1200
 Wood, R. D. 5320
 Wood, W. W. 1651, 2442, 4089
 Woodbury, G. E. 6602
 Woodcock, D. L. 1406
 Woodhead, R. W. 2486
 Wooding, R. A. 6181
 Woods, L. C. 1724, 7212
 Woods, W. C. 4646
 Woodward, A. R. 2087
 Wooldridge, C. E. 4635
 Woollatt, D. 5923
 Wordsworth, J. 973
 Work, C. E. 6436
 Worley, W. J. 2622, 7011
 Wornom, D. E. 7282
 Worrell, D. T. 5516
 Woschni, E. G. 6430
 Wouk, A. 1247
 Wouters, J. G. 3416
 Wozniak, C. 4152, 5653
 7489
 Wright, D. A. 123
 Wright, H. 7457
 Wright, J. K. 1744
 Wright, P. M. 1342
 Wu, C. C. 6298
 Wu, I.-P. 3630
 Wu, J. 3042, 3367
 Wu, M.-I. 4665
 Wu, S. M. 5300
 Wu, T. S. 3057
 Wu, T. T. 3151
 Wundt, B. M. 235
 Wunsch, G. 30
 Wyder, P. 1012
 Wynnanski, I. 6601
 Wylie, R. D. 7133
 Y
 Yabe, H. 619, 3050
 Yablokova, G. I. 7104
 Yablonik, L. M. 7089
 Yablonik, R. M. 2851
 Yaffee, P. 5485
 Yaggy, P. F. 380, 7308
 Yagi, S. 532
 Yagn, Yu. I. 3726
 Yagodkin, V. I. 366
 Yakimov, Yu. L. 990, 5987
 Yakovlev, A. P. 4378, 7065
 Yakovlev, V. I. 7458
 Yakovlev, Yu. A. 5414
 Yakubenko, A. Ye. 7431
 Yakubovich, V. A. 661, 5552
 Yakunina, L. I. 1887
 Yakushev, N. Z. 5055, 5697
 Yakushin, M. I. 4643
 Yalin, M. S. 880, 6592
 Yalin, S. 6843
 Yalinychev, N. S. 7578
 Yamada, Y. 1567, 1568
 Yamagata, K. 1042
 Yamaguchi, S. 5196, 5888
 Yamaki, N. 5009
 Yamamoto, A. 4481, 5120
 5573
 Yamamoto, J. 4481
 Yamamoto, K. 2387, 4117
 Yamamoto, T. 2024, 2629
 3227, 3802, 6357
 Yamamura, Y. 1585
 Yamanka, C. 1585
 Yamauchi, K. 2725, 5841
 Yamazaki, R. 5969
 Yampol'skii, S. L. 7602
 Yanchenko, V. T. 7503
 Yanchishin, F. P. 3880
 Yan'-chzhu, L. 677, 4270
 Yang, C. Y. 1418
 Yang, J.-W. 4081
 Yang, K.-T. 2309, 4618
 4732, 6020
 Yang, W.-J. 6047
 Yangurazov, Sh. Kh. 174
 Yano, T. 2261
 Yao, J. C. 146, 1389, 3213
 Yao, J. T. P. 841
 Yao, K. M. 4552
 Yao, T. Y. 6298
 Yao-Tsi Wu, T. 5260
 Yarema, S. Ya. 99, 1148
 Yarin, L. P. 4092
 Yarkovoi, O. I. 4792
 Yarov, M. S. 5447
 Yashnov, V. I. 2905
 Yasin, S. 7153
 Yasuhara, M. 287, 7222
 Yasumoto, T. 6715
 Yates, E. C., Jr. 1749, 1796
 3571, 6119
 Yatsenko, V. F. 752
 Yau, J. 2870
 Yeh, H. 4672
 Yellott, J. L. 4064
 Yen, B.-C. 3926
 Yen, B. T. 7014
 Yen, C.-S. 1393
 Yen, J. T. 1719, 2951, 5353
 Yen, K. T. 1713, 4115
 Yen, S.-M. 5227
 Yen, Y.-C. 3624
 Yeremenko, O. S. 4666
 Yesselman, J. B. 2714
 Yih, C.-S. 596, 4208, 7209
 Yildiz, A. 7437
 Yim, B. 1839
 Yilinen, A. 7161
 Yokobori, T. 2682
 Yokoo, K. 1776
 Yokoyama, A. 3234
 Yokoyama, K. 4481, 5120
 Yokoyama, O. 4220
 Yoshida, T. 3579
 Yoshikawa, H. 7582
 Yoshikawa, K. K. 3942
 Yoshikawa, S. 2958, 5361
 5362, 6107
 Yoshimi, Y. 203
 Yoshimura, T. 4483
 Yoshizawa, T. 4474
 Yoshizawa, Y. 5944
 Young, A. D. 7268
 Young, A. T. 6246
 Young, D. 2015
 Young, D. H. 4384
 Young, E. H. 1697
 Young, F. J. 1745
 Young, G. R. 1905, 4289
 Young, J. O. 6513
 Young, J. W. 2553
 Young, L. R. 3704
 Young, L. S. 7474
 Young, R. J. 2309
 Young, W. C. 2495
 Yousef, N. 6401
 Yu, E. Y. 7510

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Yu, K. 6835
 Yu, Y.-S. 273, 5230
 Yu, Y.-Y. 3722
 Yudintsev, V. I. 6519
 Yufa, B. Ya. 5512
 Yuille, I. M. 2716, 6858
 Yu-mai, C. 4116
 Yungman, V. S. 396
 Yura, J. A. 2697
- Z**
- Zablonskii, K. I. 3917
 Zabolotskaya, T. V. 426, 2876
 Zabolotskii, N. D. 1224
 Zabolotn'ii, L. V. 6410
 Zabrodin, P. I. 592
 Zaccero, P. F. 7115
 Zadeh, L. A. 1914, 1932
 Zadoyan, M. A. 81
 Zagorodnikov, S. P. 6751
 Zagoruchenko, V. A. 3481
 Zagrebin, I. S. 3930
 Zagryazkii, N. N. 4718
 Zahler, C. W. 643
 Zahn, J. J. 2612, 5026
 Zahorski, S. 5852, 6938
 Zaidelman, R. L. 5121
 Zaiderman, I. A. 6655, 6656
 Zaitsev, A. A. 7440
 Zaitsev, I. F. 3998
 Zaitsev, L. P. 192
 Zaitsev, S. G. 5343
- Zaitsev, Yu. I. 4700
 Zajac, L. J. 7243
 Zak, A. R. 6944
 Zakharov, S. N. 7197
 Zakharova, N. P. 7503
 Zalmanzon, I. A. 4654
 Zambelli, E. D. 1788
 Zamrik, S. Y. 3909
 Zamtaradze, L. A. 7393
 Zanaboni, O. 2601
 Zandbergen, P. J. 1806
 Zandman, F. 4639, 7251
 Zaoui, J. 2685
 Zar, M. 3781
 Zaretsky, E. V. 2080, 4812
 Zarubin, N. V. 5766, 6871
 Zaryankin, A. E. 3436, 5878
 Zaslavskii, B. I. 294
 Zaslavskii, G. M. 1116
 Zaslavsky, A. 1343
 Zatkov, Yu. A. 2645
 Zatsepin, M. F. 3436, 5921
 Zauderer, B. 4127
 Zavarina, M. V. 1209
 Zawadzki, J. 2647
 Zawidzki, J. 1985
 Zazimko, D. A. 373
 Zbrozek, J. K. 2249
 Zeckendorf, L. J. 6863
 Zee, C.-H. 4165, 4822
 Zee, C.-H. 5430, 6807
 Zeiberg, S. L. 4593
 Zeines, B. 1906
- Zel'dovich, Ya. B. 2103
 Zelenev, Yu. V. 3869
 Zeleznik, F. J. 1001
 Zelikson, A. 4417
 Zemskov, P. I. 4477
 Zemzin, V. N. 4484
 Zenin, V. I. 7535
 Zenkevich, B. A. 2907, 5325
 Zeydel, E. F. E. 1759
 Zharkova, V. R. 3456
 Zharov, V. M. 4467
 Zhermunkii, B. I. 6483
 Zhidonis, V. Yu. 4476
 Zhigulev, V. N. 2328
 Zhivlyuk, Yu. N. 4594, 5218
 Zhmur, A. S. 7154
 Zhong-Heng, G. 2141, 2411
 Zhorov, G. A. 6044
 Zhzhikhashvili, V. A. 3700
 Zhuk, K. D. 5538
 Zhukhovitskii, A. A. 2104
 Zhukhovitskii, E. M. 4734
 Zhukov, M. F. 1113, 2960
 Zhuralev, A. G. 3751
 Zhuravlev, M. M. 883
 Zhurkov, S. N. 84
 Zhuze, T. P. 402
 Zick, L. P. 1989
 Zickel, J. 2120
 Ziegler, H. 4542, 6638
 Zienkiewicz, H. K. 2780
 Zienkiewicz, O. C. 3944
 Zienkiewicz, O. C. 1892
- Zierfuss, H. 2298
 Zilova, T. K. 3861
 Zimin, E. P. 2200
 Zimin, I. P. 7432
 Zingone, G. 3748
 Zink, J. 1811
 Zipkin, M. A. 6071
 Zito, R., Jr. 997
 Zivi, S. M. 5319
 Zoebi, H. 3341
 Zolotarev, B. B. 3336
 Zolotov, S. S. 2217
 Zolotukhin, V. K. 1324
 Zolver, R. 4625
 Zonneveld, J. A. 1256
 Zorawski, M. 2014
 Zorev, N. N. 4425
 Zorowski, C. F. 3187, 6272
 Zoteev, V. S. 7162
 Zotikov, I. A. 4860
 Zouckermann, R. 3881
 Zub, N. I. 4189
 Zubova, O. M. 3004
 Zukoski, E. E. 463
 Zumwalt, G. W. 370, 911
 Zvolinskii, N. V. 2660
 Zvorono, Ya. P. 5398
 Zwerling, C. 6431
 Zyczkowski, M. 1446, 4978
 4991, 4992, 5662, 6290
 6947, 6970, 7174
- Zygmunt, K. 1860
 Zylev, B. V. 5530
 Zysina-Molozhyon, L. M. 4036

Review Numbers:	1-627	628-1230	1231-1860	1861-2498	2499-3051	3052-3655	3656-4237	4238-4899	4900-5497	5498-6192	6193-6872	6873-7605
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

Supplemental List of Publications Scanned

The following list of publications supplements those included in the Annual Index for Volume 15 (1962) and in the first supplement, Volume 16 (1963).

Air and Water Pollution (formerly *International Journal of Air and Water Pollution*). Oxford, England
Annalen der Meteorologie. Hamburg
Archiwum Gornictwa. Warsaw
Atti del Istituto Veneto. Venice
Avtomaticheskii Kontrol i Izmeritel'naya Tekhnika. Kiev
Avtomatika, Akademii Nauk URSR. Kiev
Beszamolo Vizgazdalkodasi Tudomanyos Kutato Intezet. Budapest
Boletim da Ordem dos Engenheiros. Lisbon
Buletinul Institutul Politehnic Bucuresti. Bucharest
Buletinul Stiintific Institutul de Constructii Bucuresti. Bucharest
Bulletin de la Societe des Mathematiciens et Physiciens de la R. P. de Serbie Yougoslavie. Belgrade
Bulletin Mathematique de la Societe des Sciences Mathematique et Physiques de la Republique Populaire Roumaine. Bucharest
Bulletin of Japan Society of Grinding Engineers. Tokyo
Bulletin of the Institution of Engineers, India. Calcutta
Bulletin of the International Association for Bridge and Structural Engineering. Zurich
Bulletin of the Japan Society for Precision Engineering. Tokyo
Canadian Nuclear Technology. Toronto
Centraal Laboratorium T.N.O. Rapport. Delft
Chemical Engineering Progress. New York
Chinese Journal of Civil Engineering (*T'u Mu Kung Ch'eng Hsueh Pao*, *Tumu Gongcheng Xuebao*). Peking
Chinese Journal of Mechanical Engineering (*Chi Hsieh Kung Ch'eng Hsueh Pao*). Peking
Cieplne Maszyny Przeplywowe. Lodz
College of Aeronautics, Cranfield. Report Aero
Computing Reviews. New York
Construction Metallique. Paris
Czechoslovak Journal of Physics. Prague
Deutsche Luft- und Raumfahrt, Forschungsbericht. Munich
Deutsche Luft- und Raumfahrt, Mitteilung. Munich
Dokladi Akademii Nauk Armyanskoi SSR. Erevan
Eidgenossische Material Prufung – und Versuchs – Anstalt für Industrie, Bauwesen und Gewerbe, Berichte. Dubendorf
Ekonomsko Technicki Preglad. Zagreb
Electronics and Power (formerly *Journal of the Institution of Electrical Engineers*). London
Engineering Cybernetics (Translation of *Inzhenernyi Kibernetika* by the Institute of Electrical and Electronics Engineers, New York, N. Y.)
Environmental Engineering Quarterly. London
Finom-Mechanika. Budapest
High Temperature. New York
Hovering Craft and Hydrofoil. London

I & E C, Fundamentals. Washington, D. C.
I & E C, Product Research and Development. Washington, D. C.
I E E Transactions on Automatic Control. New York
Indian Journal of Pure and Applied Physics. New Delhi
Industrial Laboratory. Pittsburgh, Pa.
Ingenieria Civil, Mexico, D. F.
Institute of Electrical and Electronics Engineers Spectrum. New York
Interavia. Geneva
International Science and Technology. New York
Instituto Lombardo, Accademia de Scienze e Lettere, Rendiconti Scienze Matematiche, Fiziche, Chemiche e Geologiche. Milan
Izvestia Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk, Metallurgiya i Gornoje Delo. Leningrad
Izvestia Akademii Nauk SSSR, Tekhnicheskaja Kibernetika. Moscow
Jahrbuch der Wissenschaftlichen Gesellschaft für Luftfahrt E. V. Brunswick
Journal de Mathematiques Pures et Appliquees. Paris
Journal für die Reine und Angewandte Mathematik. Berlin
Journal of Aircraft. New York
Journal of Applied Chemistry. London
Journal of Hydraulic Engineering (*Shuili Xuebao*). Peking
Journal of Mathematical Analysis and Applications. New York; London
Journal of Mathematical Physics. New York
Journal of Mechanical Laboratory. Tokyo
Journal of Mechanical Laboratory of Japan. Tokyo
Journal of Nuclear Energy. Oxford
Journal of Spacecraft and Rockets. New York
Journal of the Chemical Society. London
Journal of the Electrochemical Society. New York
Journal of the Society of Instrument and Control Engineers. Tokyo
Krupp Technical Review. Essen
Luftfahrt, Forschungsberichte des Bundesministers für Verkehr. Düsseldorf
Magazine of Concrete Research. Wexham Springs, Bucks.
Materiales de Construccion Ultimos Avances Instituto Eduardo Torroja de la Construccion y del Cemento. Madrid
Materials Evaluation (formerly Nondestructive Testing). Evanston, Ill.
Mathematicae Notae, Boletin del Instituto de Matematica. Rosario, Argentina
Mathematics Seminar. New Delhi
National Research Council of Canada, Mechanical Engineering Reports. Ottawa
Osnovaniia, Fundamenty i Mekhanika, Gruntov. Moscow
Papers of Ship Research Institute, Tokyo
Prikladnaya Mekhanika. Kiev
Proceedings of the Institution of Electrical Engineers. London
Przeglad Geodezyjny. Warsaw

**Publikacije Elektrotehnickog Fakulteta, Ser. Matematika i
Fizika.** Belgrade

Pyrodynamics. London; New York

RFM, Revue Francaise de Mecanique. Paris

Reactor Technology. Oxford

Recherche Aerospatiale (formerly **Recherche Aeronautique**).
Paris

Report of the Army Research and Testing Laboratory. Seoul

Results of Marine Meteorological and Oceanographical Observations. Tokyo

Review of Scientific Instruments. New York

Revista IMCYC (Instituto Mexicano del Cemento y del
Concreto). Mexico, D. F.

Revue Generale de L'Hydraulique. Paris

Revue Roumaine de Mathematiques Pures et Appliquees
(formerly **Revue de Mathematiques Pures et Appliquees**).
Bucharest

Revue Roumaine de Metallurgie (formerly **Revue de Metallurgie**).
Bucharest

**Revue Roumaine des Sciences Techniques, Serie de Mecanique
Appliquee** (formerly **Revue de Mecanique Appliquee**).
Bucharest

**Revue Roumaine des Sciences Techniques, Serie Electro-
technique et Energetique** (formerly **Revue d'Electrotechnique et d'Energetique**). Bucharest

Ricerca Scientifica, Quaderni. Rome

Rozprawy Inzynierskie. Warsaw

Scientia Sinica. Peking

Shipping World and Shipbuilder. London

Shuili Xuebao see **Journal of Hydraulic Engineering**

Skibsfart. Oslo

Structural Concrete. London

Technical News Bulletin, NBS. Washington, D. C.

Textile Institute and Industry. Manchester

Thermal Engineering. Oxford

Trend in Engineering. Seattle, Wash.

**Trudy Fizicheskogo Instituta im P. N. Lebedeva, Akademii
Nauk SSSR.** Moscow

T'u Mu Kung Ch'eng Hsueh Pao, Tumu Gongcheng Xuebao
see **Chinese Journal of Civil Engineering**

Undersea Technology (formerly **Underwater Engineering**).
Arlington, Va.

Zagadnienia Organ Nieliniowych. Warsaw

Zentralblatt für Mathematik und Ihre Grenzgebiete. Berlin

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